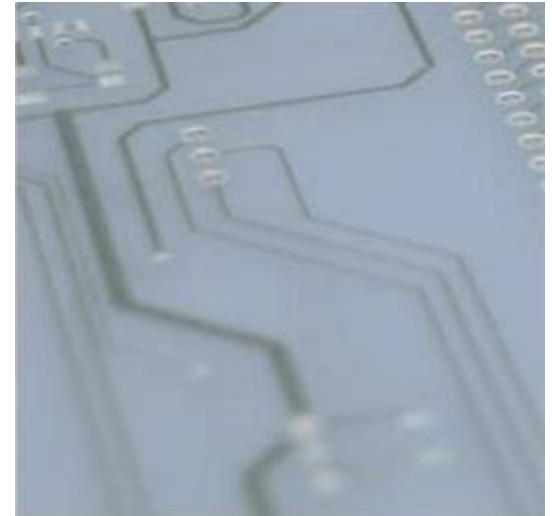
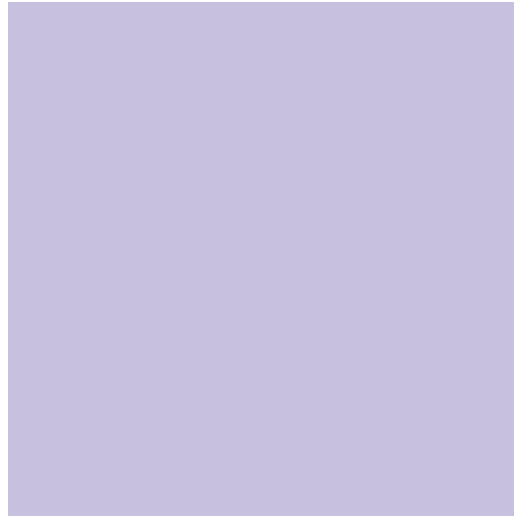


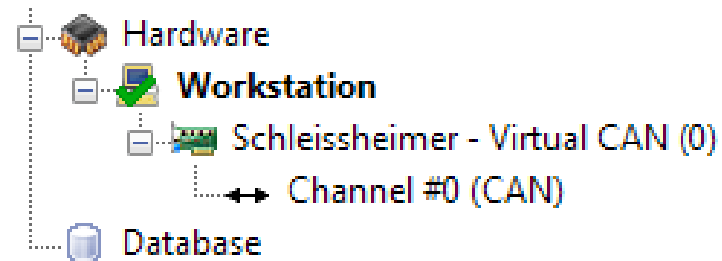


# CanEasy

## Hardware configuration

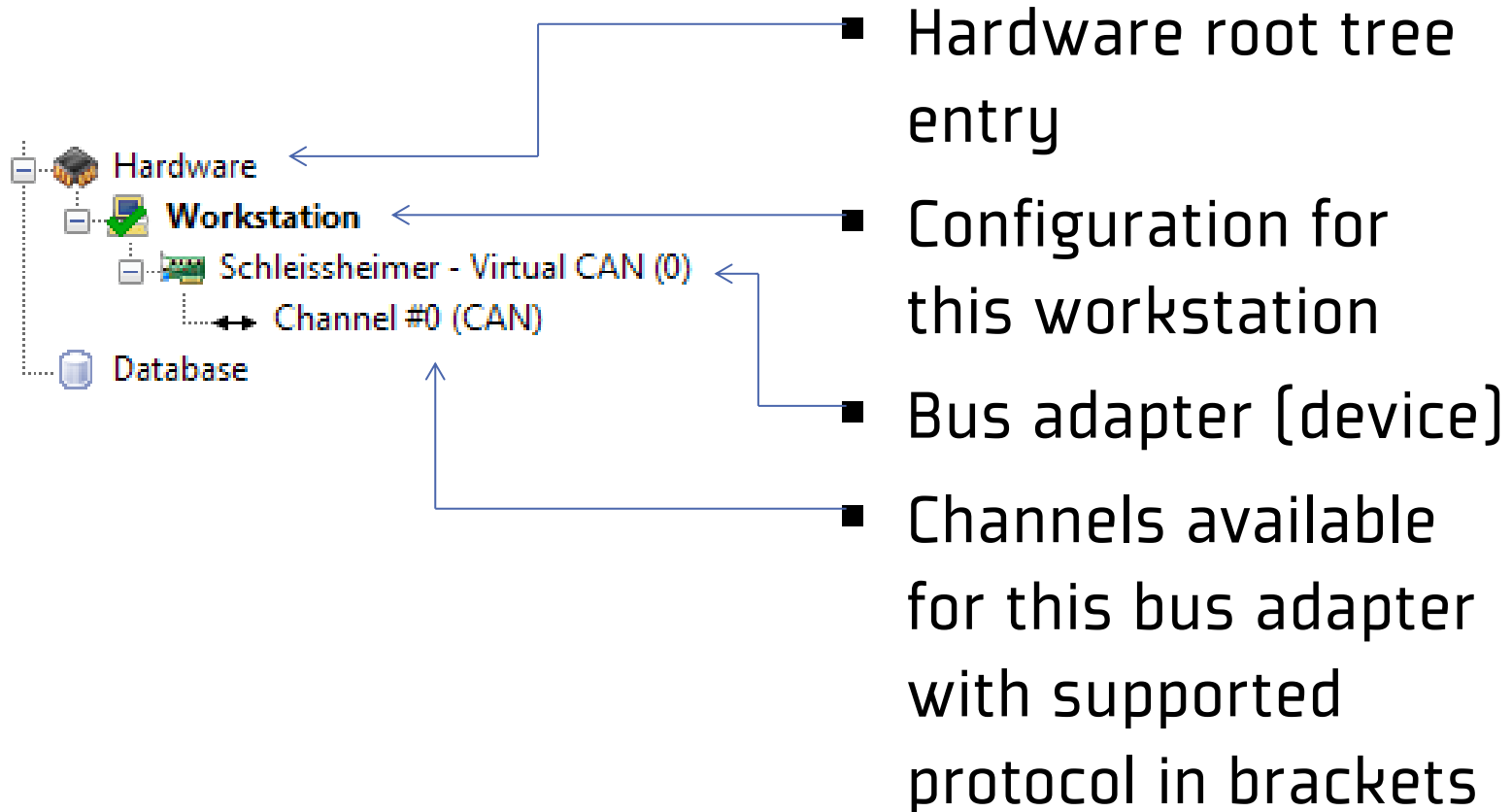


- CanEasy supports bus adapters of different vendors
  - IXXAT
  - Intrepid
  - ETAS
  - Kvaser
  - Melexis
  - National Instruments
  - PEAK-System
  - Softing
  - Vector Informatik



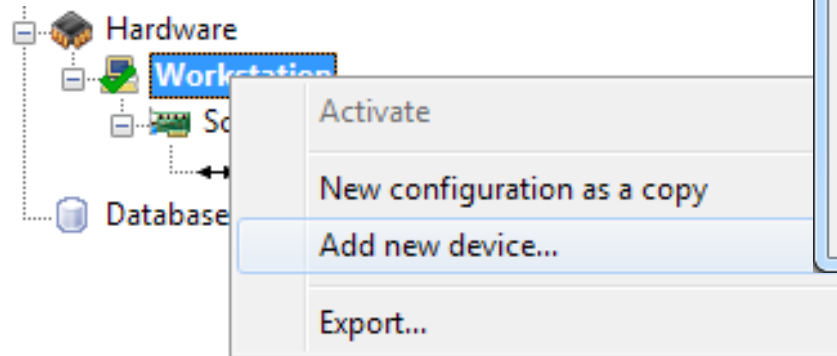
- All bus adapters are managed using the "Hardware" tree entry
- The "Workstation" tree node contains the local configuration of your computer
- Add devices manually or use auto detection

# Hardware – Basics



# Add new device manually

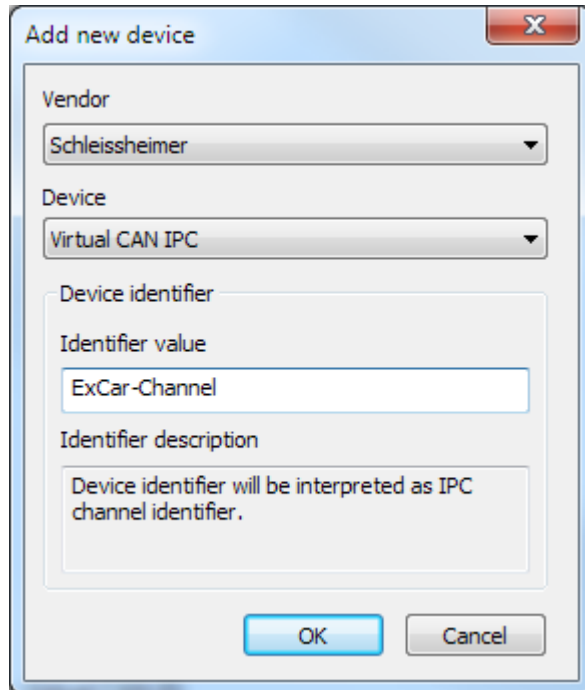
- Via the context menu, new devices can be added
- Choose the vendor and the device you want to use
- If you use more than one device you must also set the identifier value (e.g. serial number)

A screenshot of a dialog box titled 'Add new device'. It contains the following fields:

- 'Vendor': A dropdown menu with 'Schleissheimer' selected.
- 'Device': A dropdown menu with 'Virtual CAN' selected.
- 'Device identifier': A section containing:
  - 'Identifier value': An empty text input field.
  - 'Identifier description': A text area containing the text 'Device identifier here is just to distinguish the devices.'

At the bottom right are 'OK' and 'Cancel' buttons.

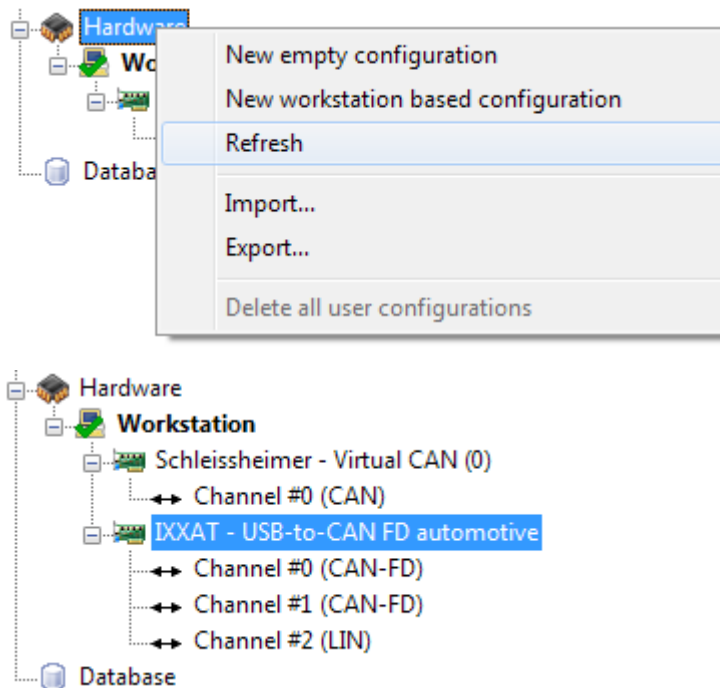
# Create ExCar-Channel



- To communicate with our simulated instrument cluster (Example-Car) use the device "Virtual CAN IPC" with the device identifier "ExCar-Channel"
- Starting our Example Car, you will directly be able to receive and to transmit CAN frames

# Auto detect bus adapters

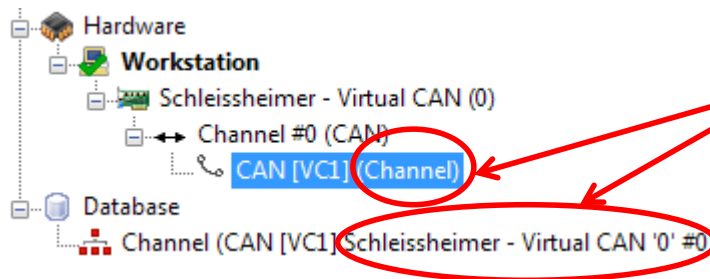
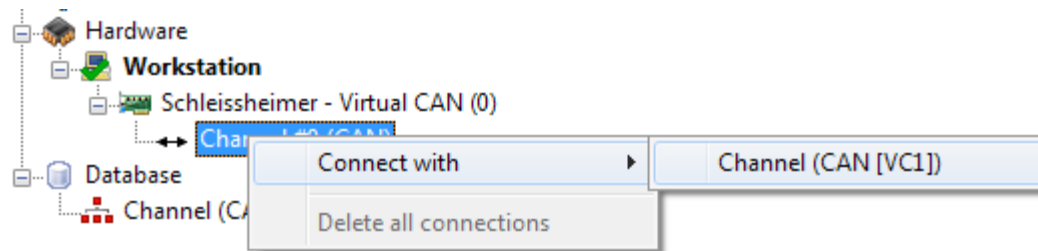
- To auto detect all connected devices, right-click on the tree entry "Hardware" and select "Refresh".



- Detected devices are added under "Workstation"
- Behind the device channels, the supported protocol is shown in brackets

# Connect to database channel

- To use the bus adapter the database channel must be connected to some hardware channel
- Open the context menu of the hardware channel select "Connect with" and choose the database channel



■ You can see connected channels on both places

- The mapping between database and hardware channels is abstracted by virtual channels
- This allows using the workspace on other computers with different bus adapters

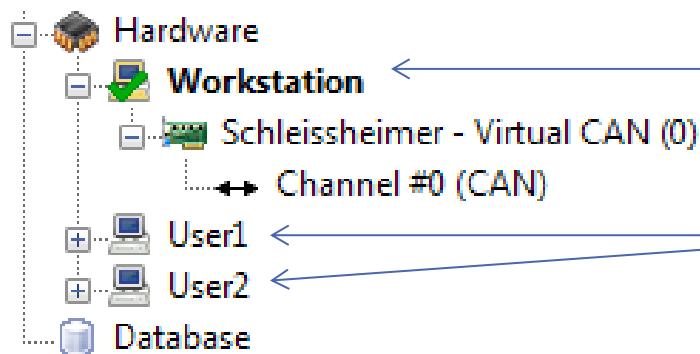
Virtual channel	Computer 1	Computer 2
CAN 1	Tiny CAN Channel 1	IXXAT Channel 1
CAN 2	Tiny CAN Channel 2	IXXAT Channel 2
LIN 1	IXXAT Channel 3	Melexis LIN Master

# Where are the hardware settings

- Till now we only used hardware configuration for your workstation
- This configuration is shared by all users working on that workstation
- Configuration path:  
%ALLUSERSPROFILE%\CanEasy\CanEasy.xml

# Multiple hardware configurations

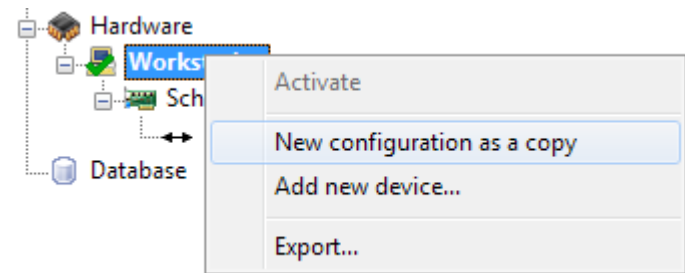
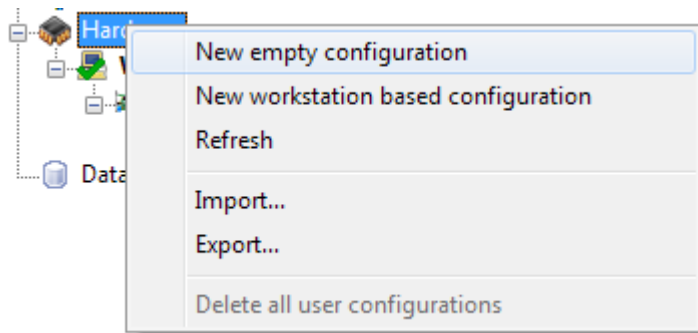
- Every user can create it's own hardware configuration
- User created configurations are stored in the CanEasy workspace
- This allows sharing a workspace between multiple users where every user can have it's own hardware setup



- Configuration shared by all users
- User created configuration stored in workspace

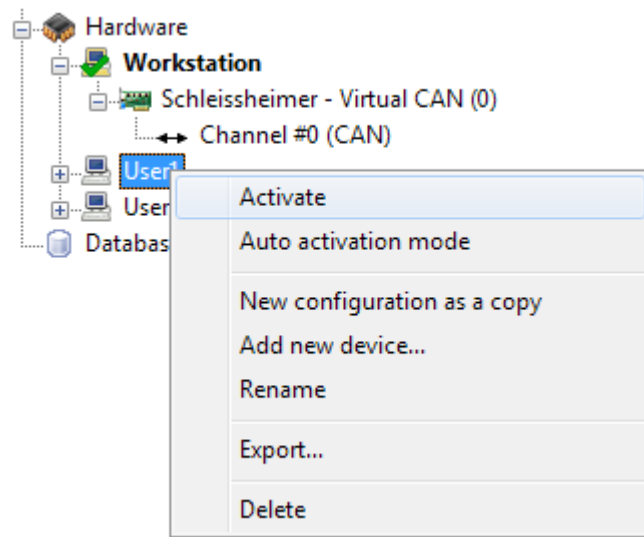
# Create hardware configuration

- To create an own hardware configuration you can
  - Create an empty configuration or
  - Create a copy of your workstation



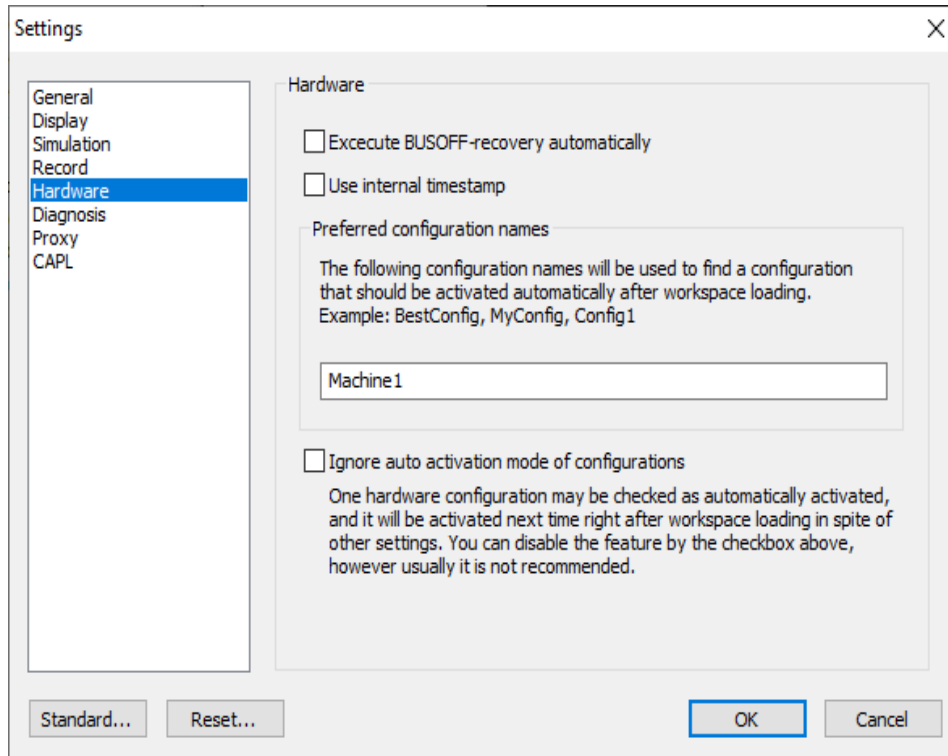
# Active configuration

- Having multiple configurations you need to define the one to be used
- The active configuration is displayed in bold letters



- Use "Auto activation mode" to activate this configuration every time the workspace is loaded
- This allows to setup one hardware configuration for every user

# Active configuration



- Using the CanEasy settings, users can configure the configurations they want to activate after loading a workspace
- This allows to share a workspace between users which are using different bus adapters

Thank you for your attention!

---