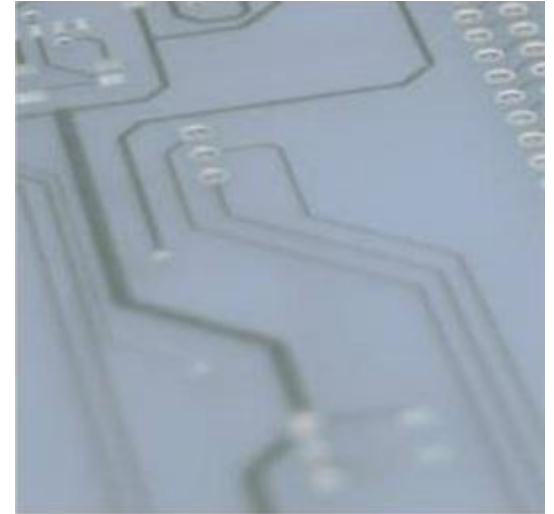
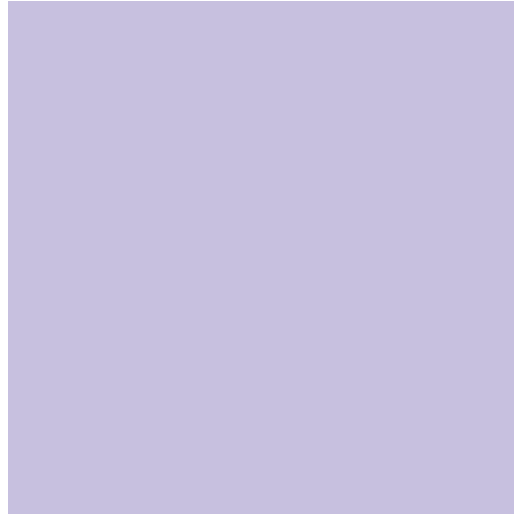
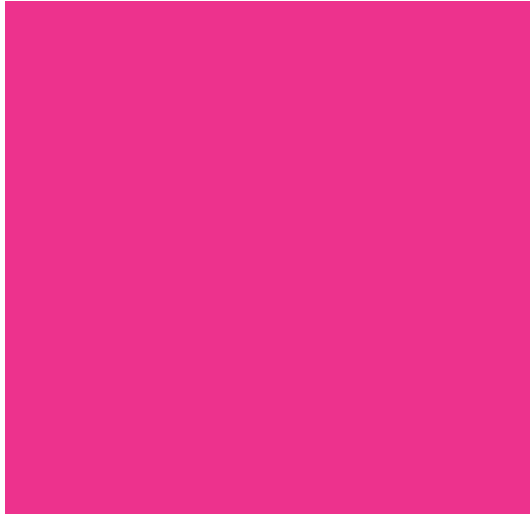
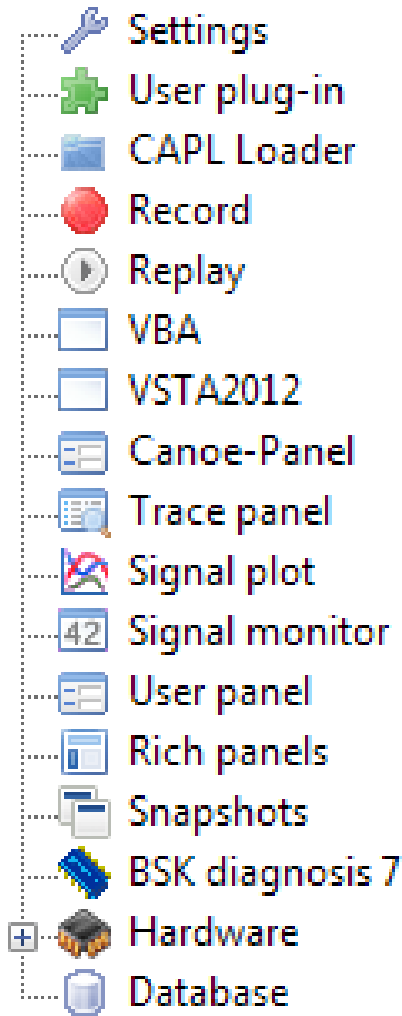


# CanEasy – Overview

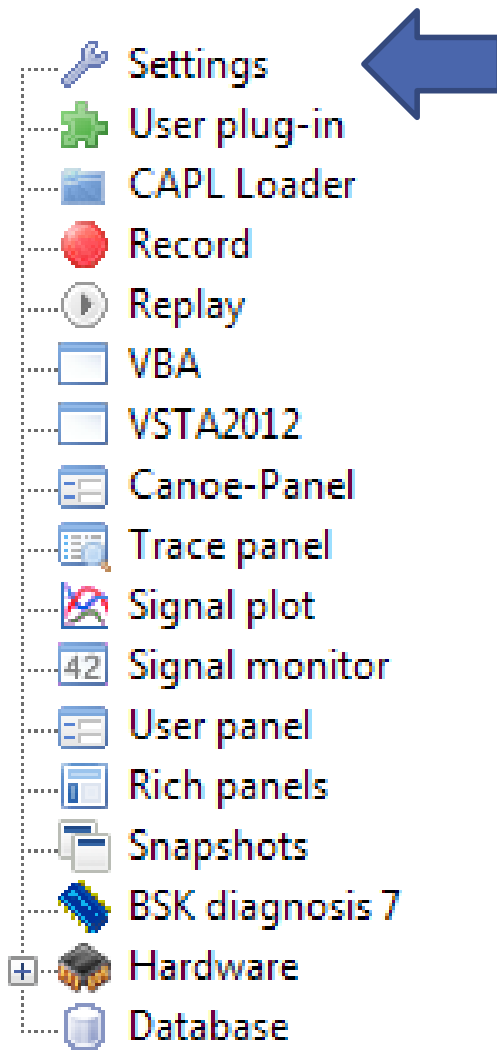


# System plug-ins

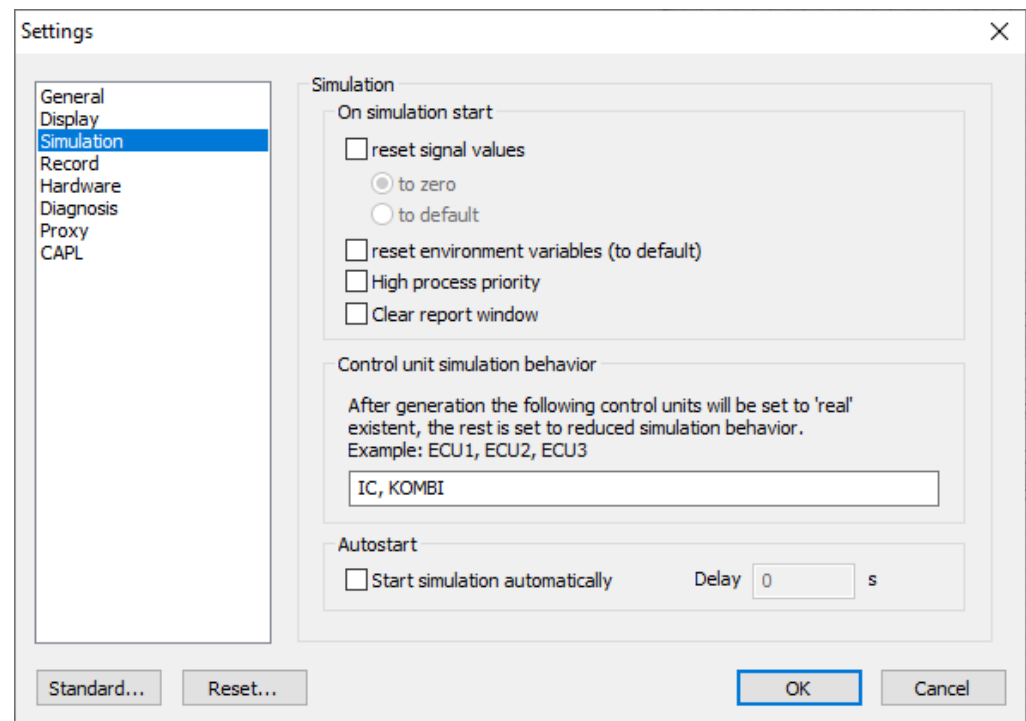


- Every entry is created by a system-plug-in (DII)
- System plug-ins are automatically loaded from System plug-ins folder
- New core functions can be added to CanEasy just by creating new plug-ins
- Next pages are showing a short description of all available plug-ins

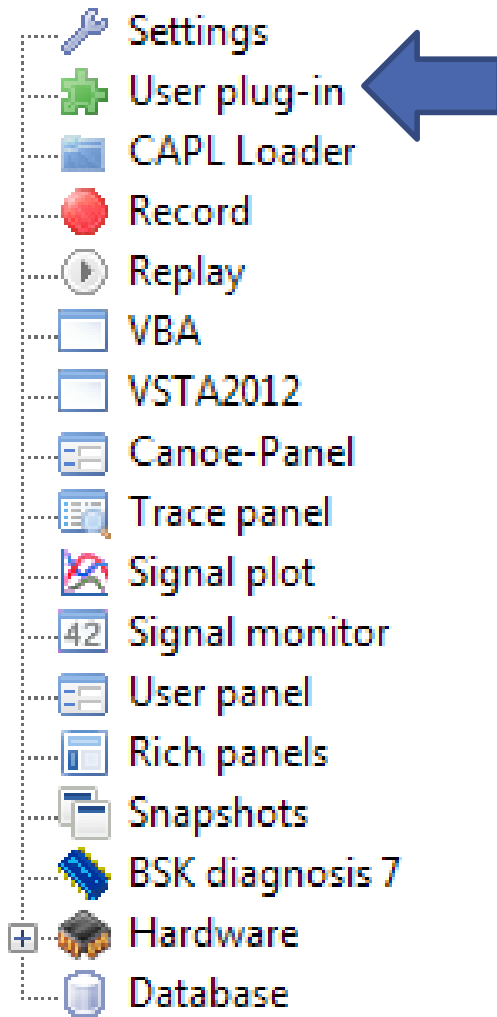
# Settings



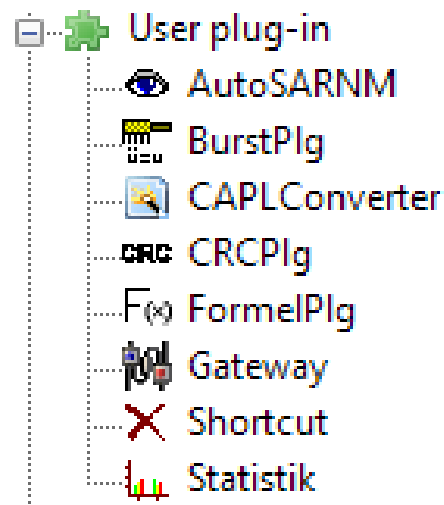
- Double click opens a dialog to change CanEasy setting like:
  - Show message-id in explorer view
  - Cyclic update of user interface
  - Use internal timestamps
  - BusOff recovery
  - ...

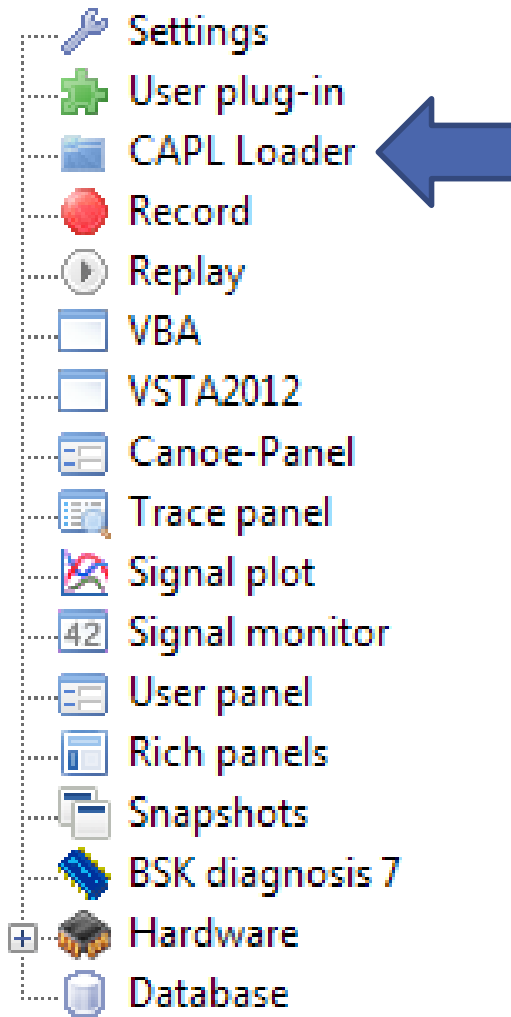


# User plug-ins



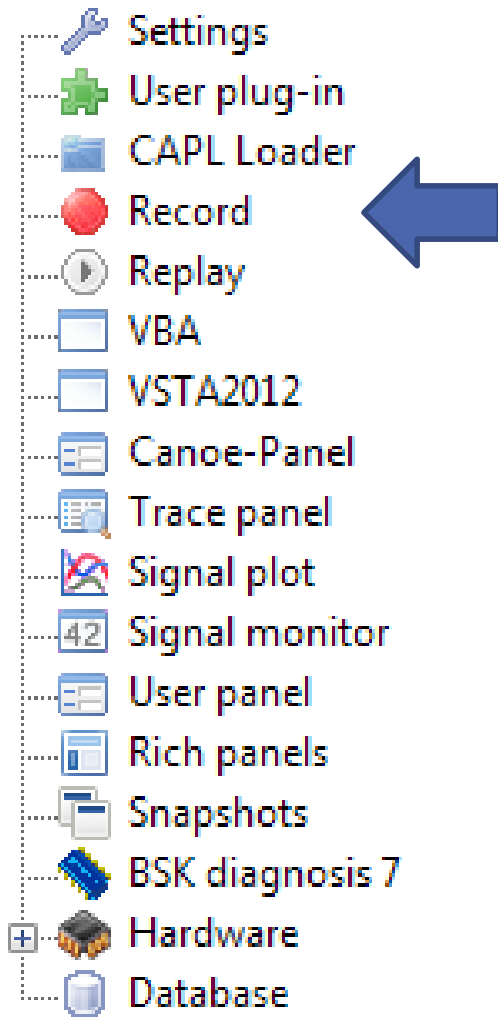
- CanEasy provides useful plug-ins which can be loaded for special functions
- Write own plug-ins using ANSI-C, C++ or COM API





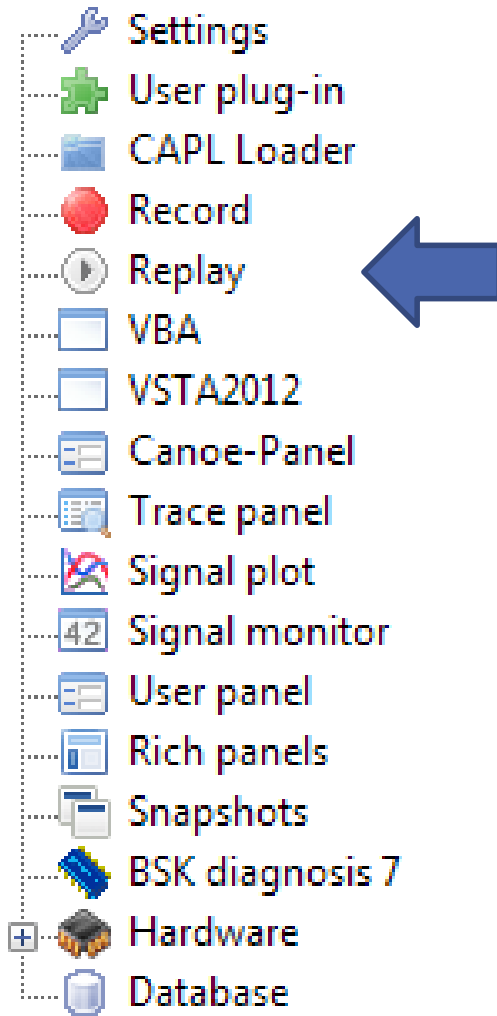
- Contains compiled plug-ins for every ECU node of the CANoe configuration
- Nodes can be activated/deactivated
- CAPL plug-ins are loaded automatically after compilation with User plug-in CAPLConverter

# Record

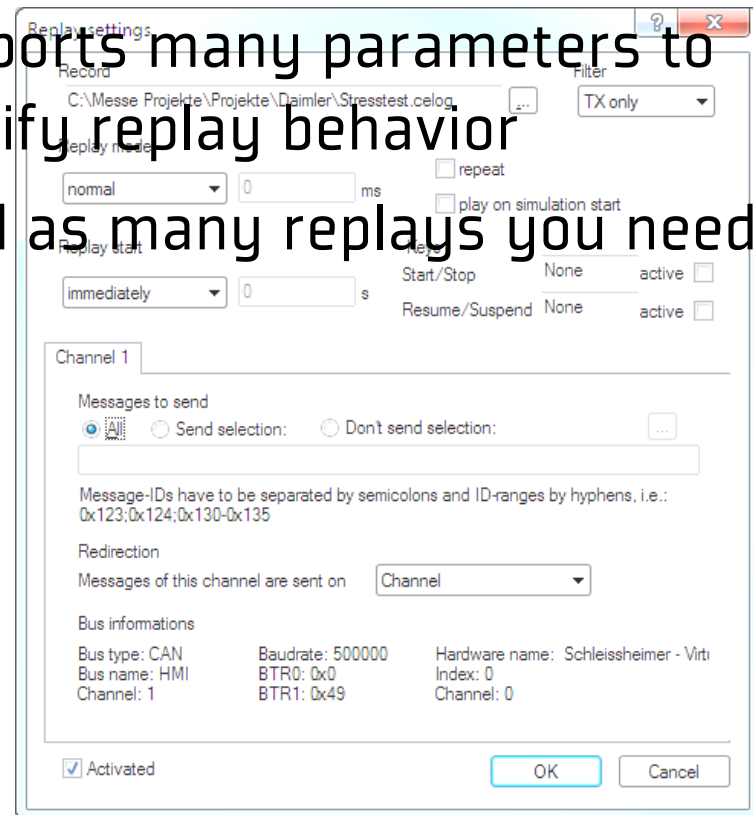


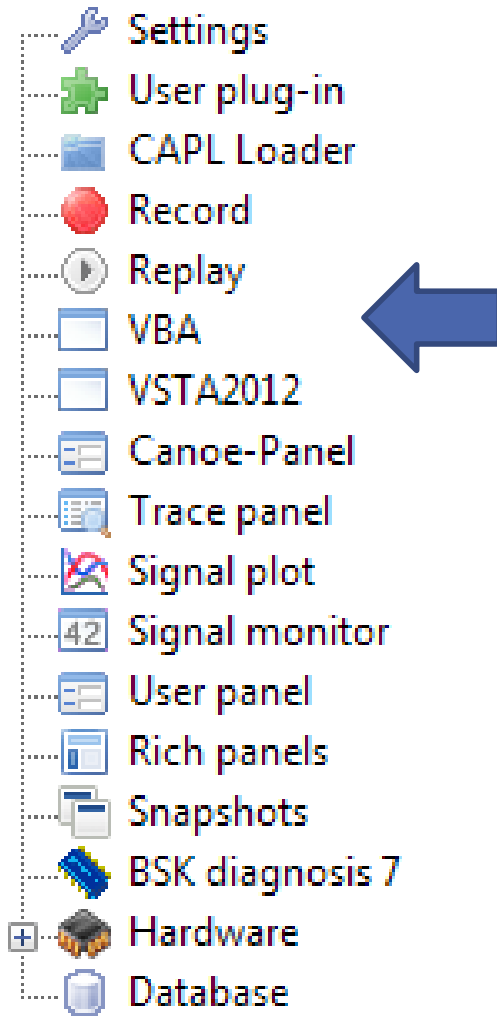
- Access to the CanEasy record
- LED is blinking if recording is active
- Record starts automatically on simulation start
- Record includes all received and transmitted CAN frames without any filter
- Load record to analyze with trace and plot

# Replay

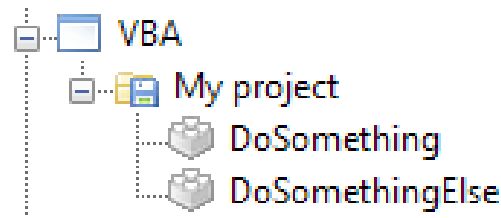


- Reproduce errors by replaying recorded files
- Supports many parameters to modify replay behavior
- Load as many replays you need

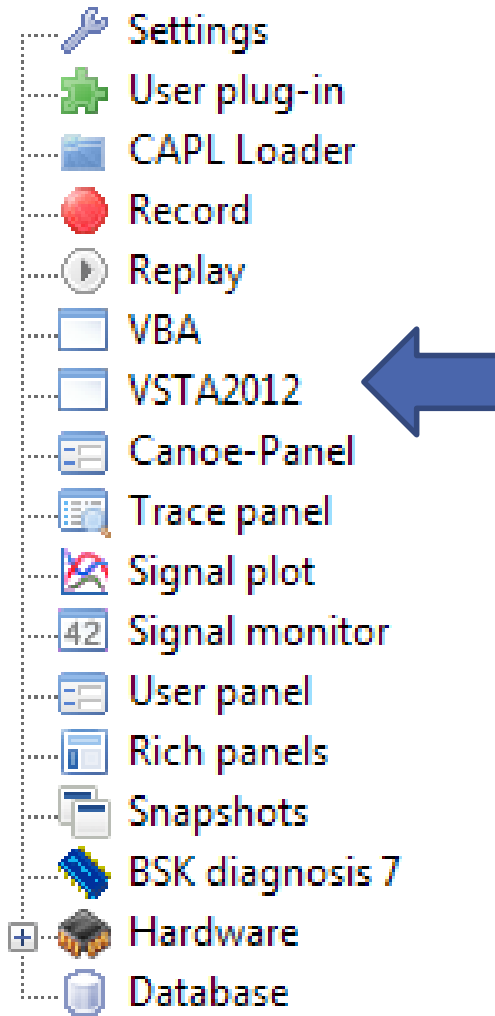




- Integrated IDE for Visual Basic for Applications (like Excel)
- Contains VBA projects
- Each VBA project provides all public macros
- Start macro via context menu

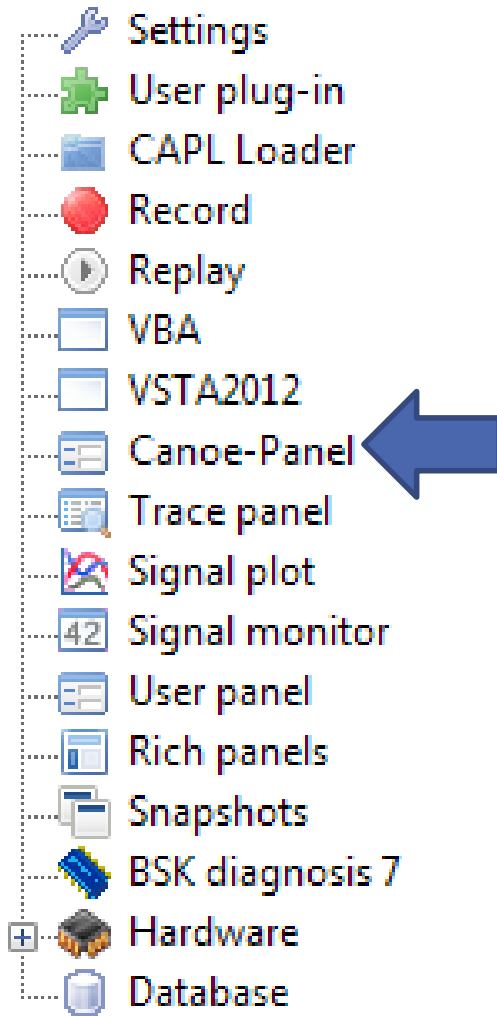






- Integrated IDE for Visual Studio for Applications
- Requires at least installed Visual Studio 2012 Professional
- Programming with C# or VB .Net

# Canoe panel

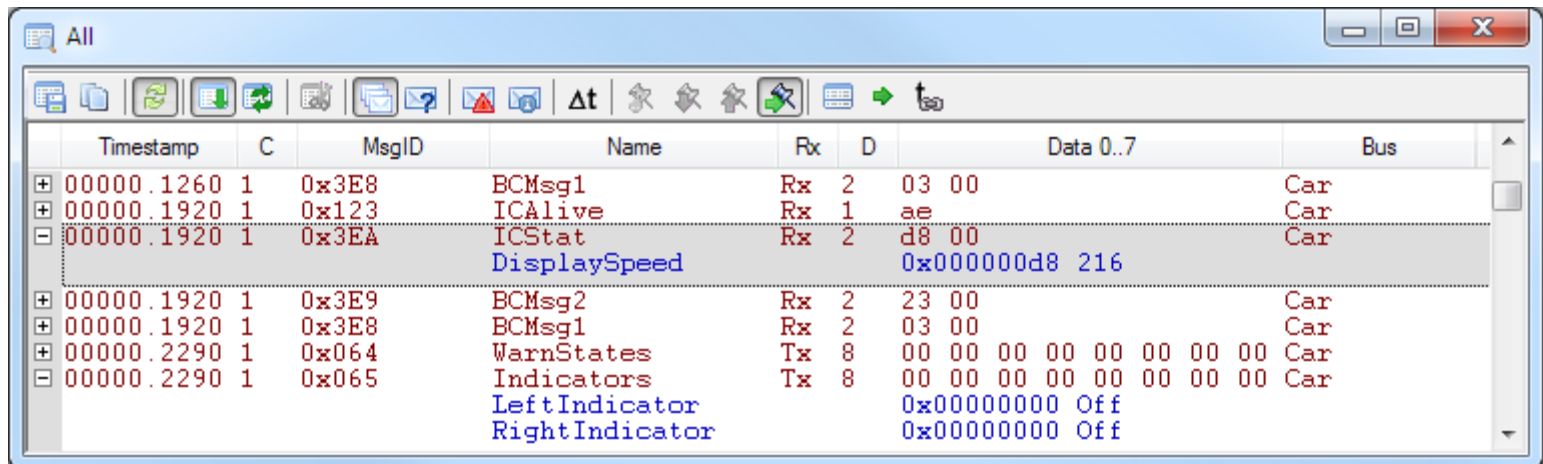


- After import of a CANoe configuration it contains all panel files
- Open Canoe panel by double click

# Trace panel

- Settings
- User plug-in
- CAPL Loader
- Record
- Replay
- VBA
- VSTA2012
- Canoe-Panel
- Trace panel
- Signal plot

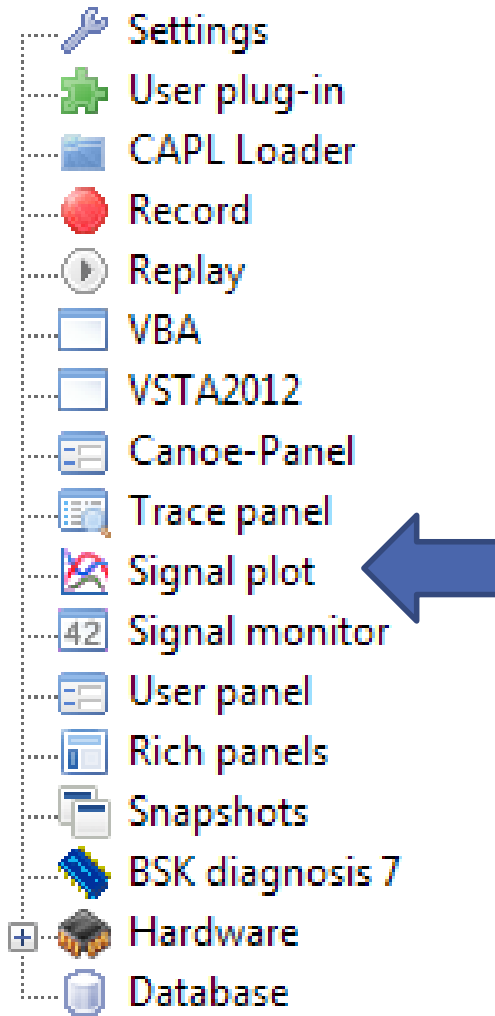
- Shows received and transmitted frames with their physical interpretation
- Allows analyzing large records



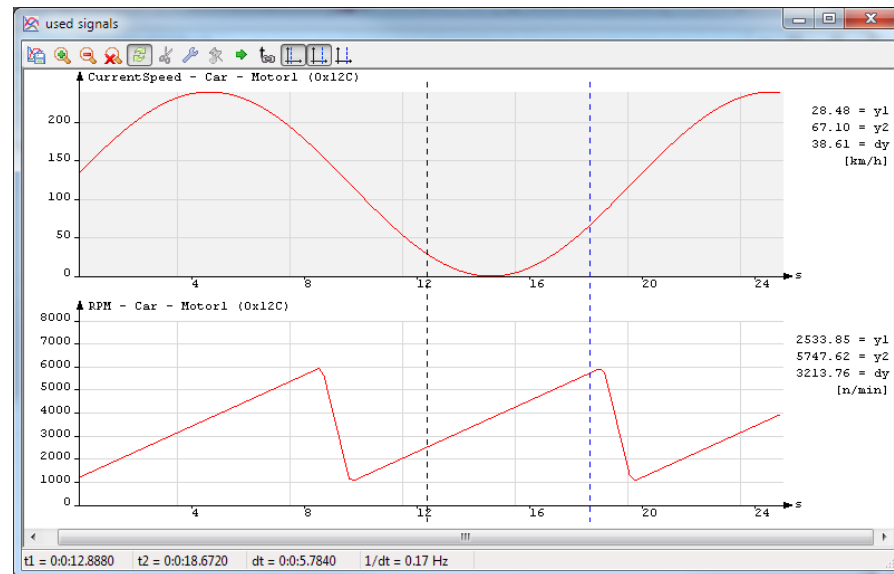
The screenshot shows the 'Trace panel' window with a toolbar and a table of messages. A blue arrow points to the 'Trace panel' icon in the left sidebar.

	Timestamp	C	MsgID	Name	Rx	D	Data 0..7	Bus
+	00000.1260	1	0x3E8	BCMsg1	Rx	2	03 00	Car
+	00000.1920	1	0x123	ICAlive	Rx	1	ae	Car
-	00000.1920	1	0x3EA	ICStat	Rx	2	d8 00	Car
				DisplaySpeed			0x000000d8 216	
+	00000.1920	1	0x3E9	BCMsg2	Rx	2	23 00	Car
+	00000.1920	1	0x3E8	BCMsg1	Rx	2	03 00	Car
+	00000.2290	1	0x064	WarnStates	Tx	8	00 00 00 00 00 00 00 00	Car
-	00000.2290	1	0x065	Indicators	Tx	8	00 00 00 00 00 00 00 00	Car
				LeftIndicator			0x00000000 Off	
				RightIndicator			0x00000000 Off	

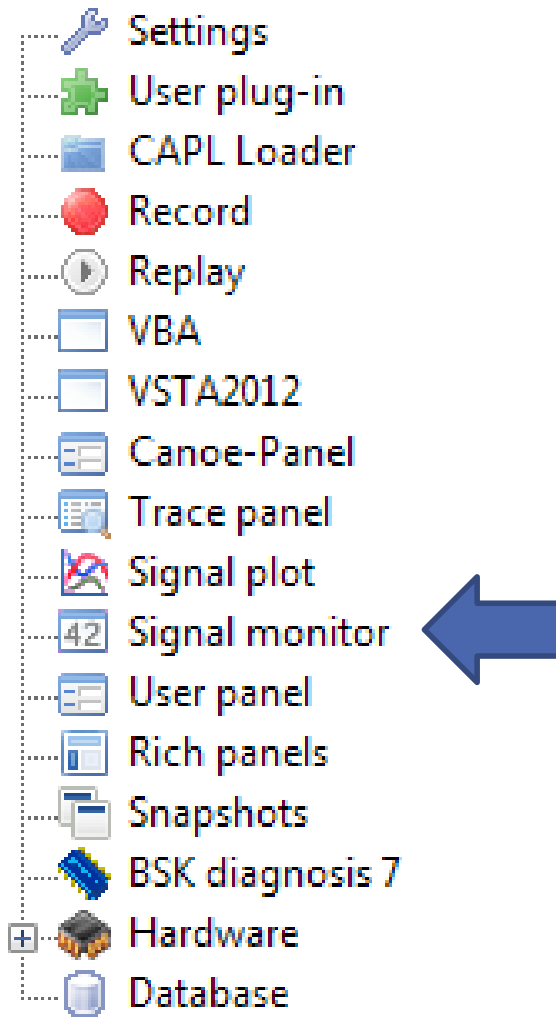
# Signal plot



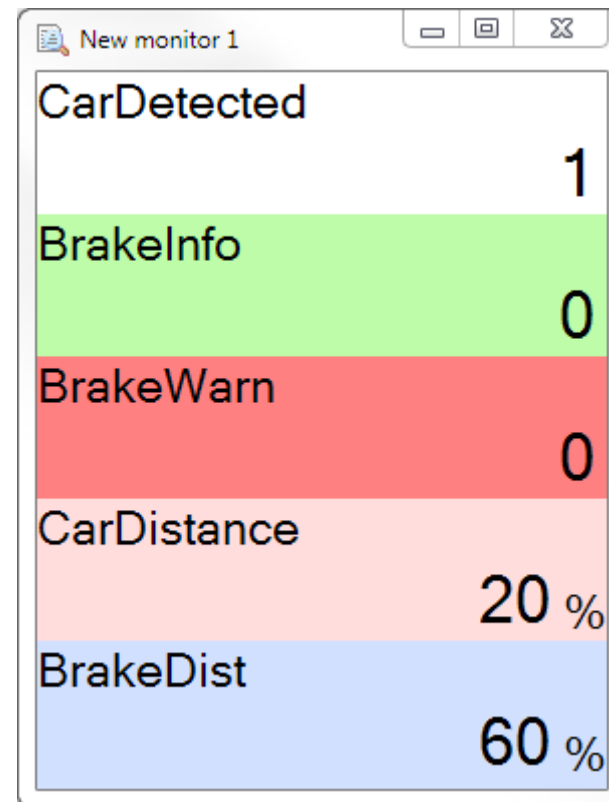
- Like the trace, the plot shows only transmitted and received signals



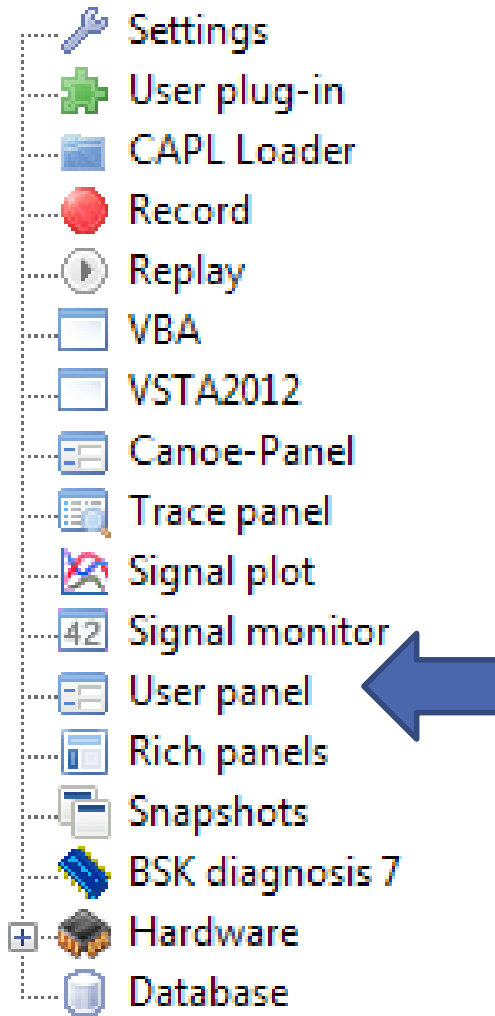
# Signal monitor



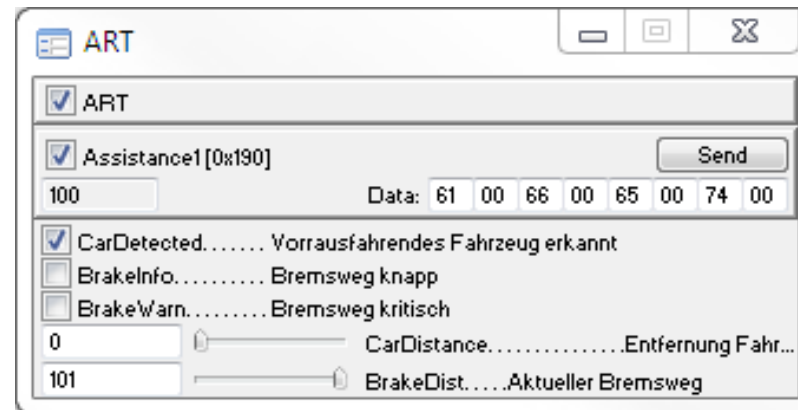
- Monitor important signal values with a large font



# User panel



- Monitor and change message payload, signals and variable values
- Controls are generated automatically



# Rich panels



Settings  
User  
CAP  
Reco  
Repla  
VBA  
VSTA  
Cand  
Trac  
Signa  
Signal monitor  
User panel  
Rich panels  
Snapshots  
BSK diagnosis 7  
Hardware  
Database

New Panel 1

96 km/h

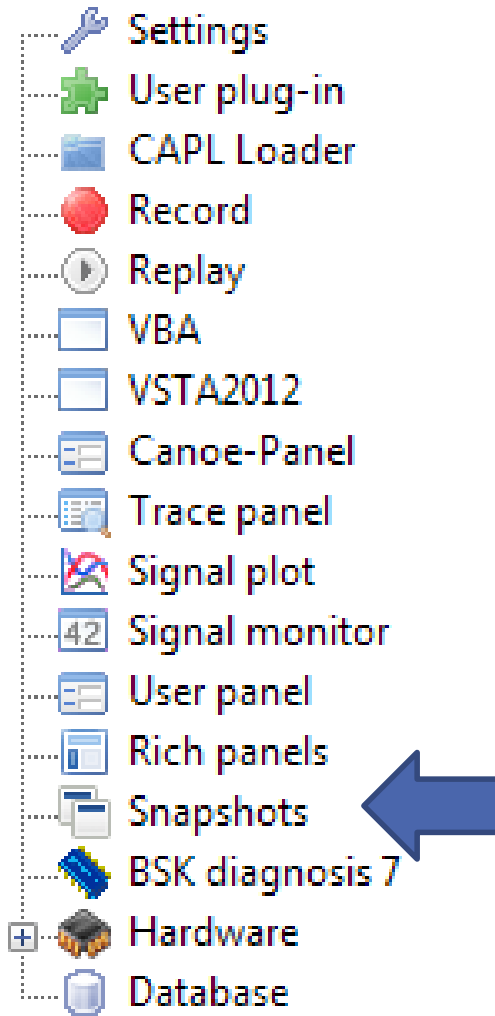
ECO 95

0 km

11:31:58

- Show and modify any database value in attractive WPF-based panels
- Panels must be created with integrated Panel designer


















# Snapshots

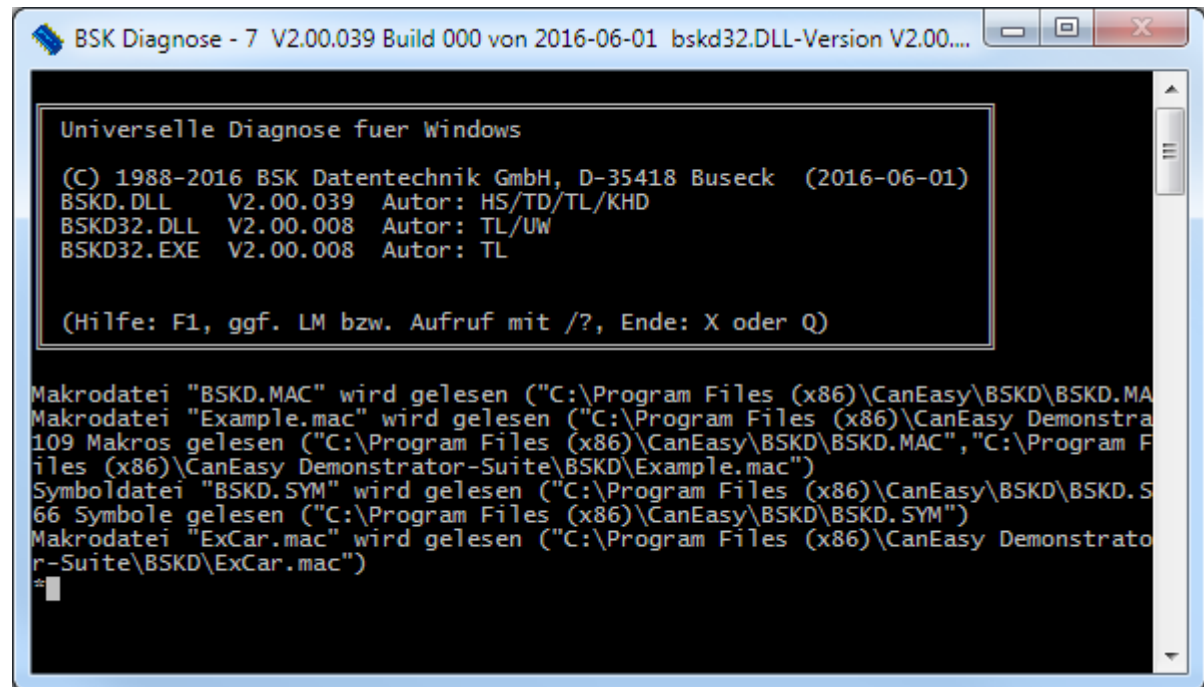


- Saves the current state of all core applications, as well as message payloads and variable values
- Snapshots can be restored even if simulation is running

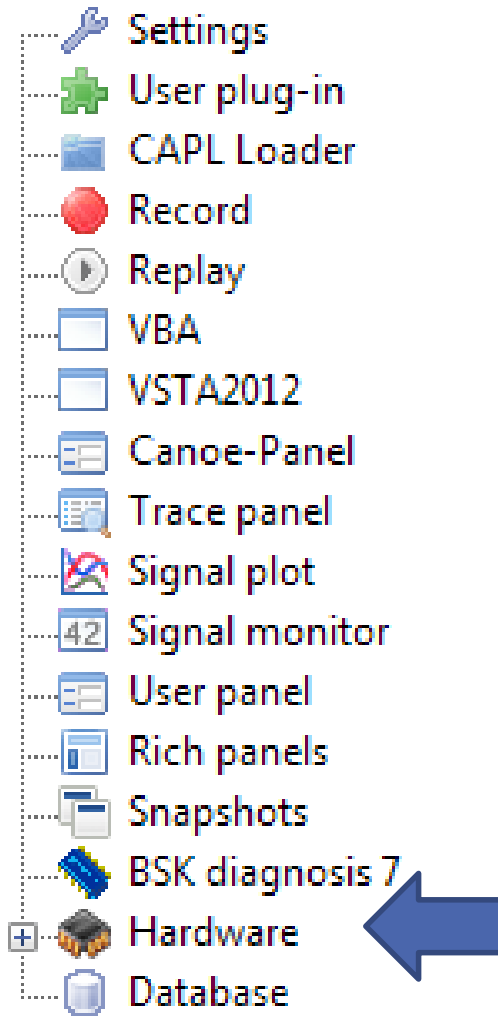


# BSK diagnosis 7

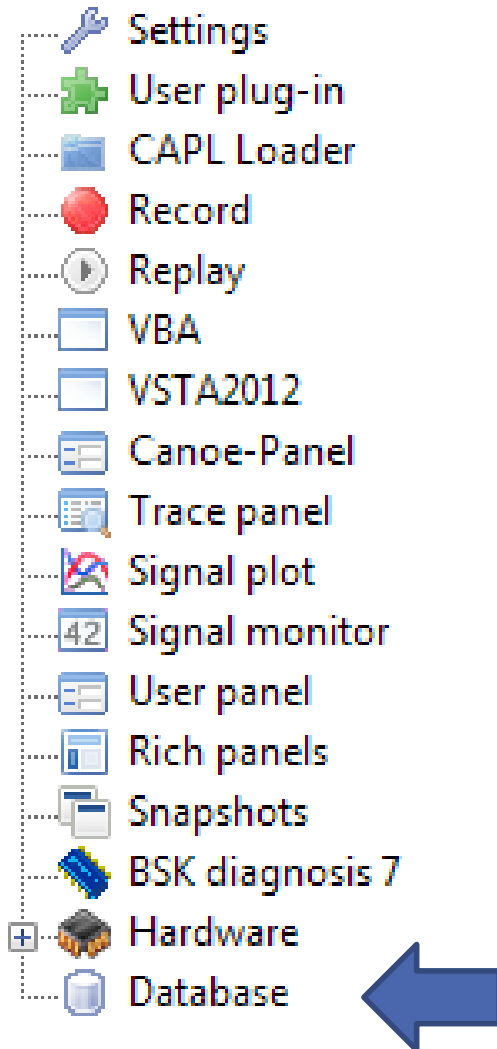
-  Settings
-  User plug-in
-  CAPL Loader
-  Record
-  Replay
-  VBA
-  VSTA2012
-  Canoe-Panel
-  Trace panel
-  Signal plot
-  Signal monitor
-  User panel
-  Rich panels
-  Snapshots
-  BSK diagnosis 7
-  Hardware
-  Database



- Provides diagnostic console window for single service execution
- Supports macros for test automation



- Auto detect connected bus adapters
- Connect database channels to hardware channels



- The database is the heart of CanEasy
- It contains the complete communication matrix
  - Channels
  - Control units
  - Messages
  - Signals
  - Variables
  - Schedule tables, trigger
  - ...
- Drag & Drop elements to core applications like trace and plot