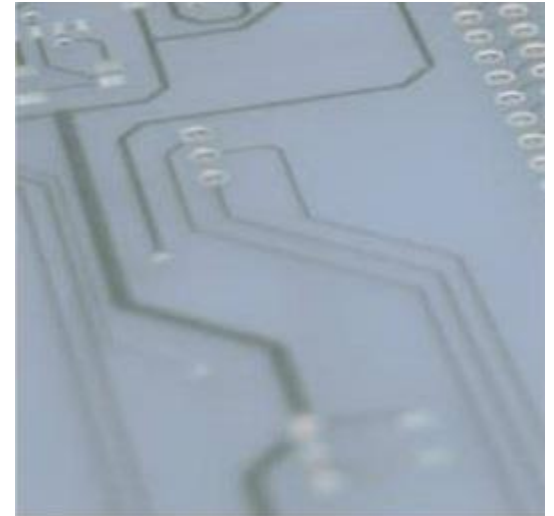
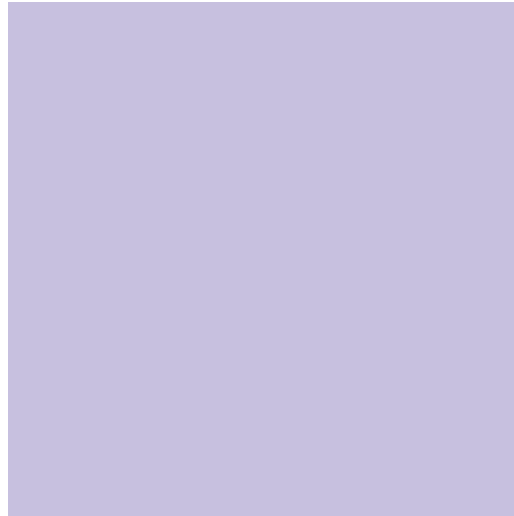
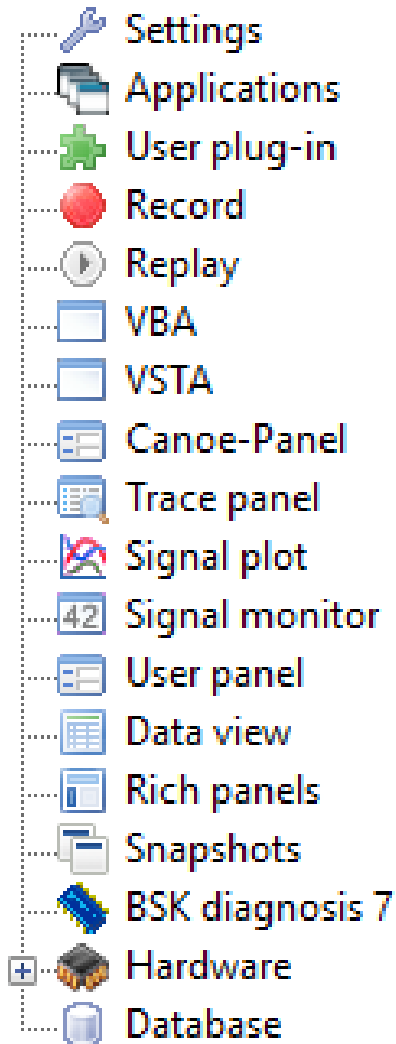


CanEasy – Overview

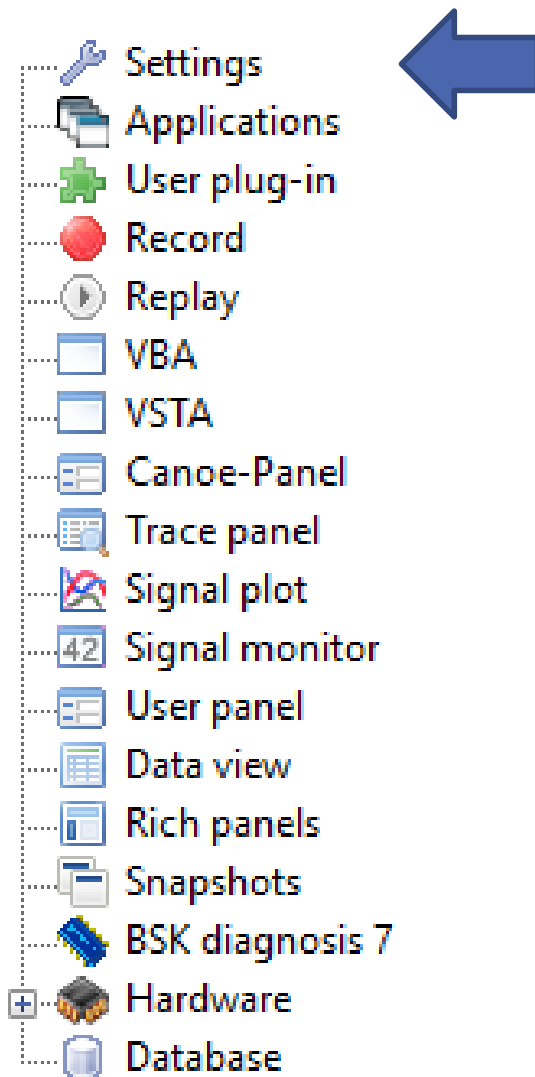


System plug-ins

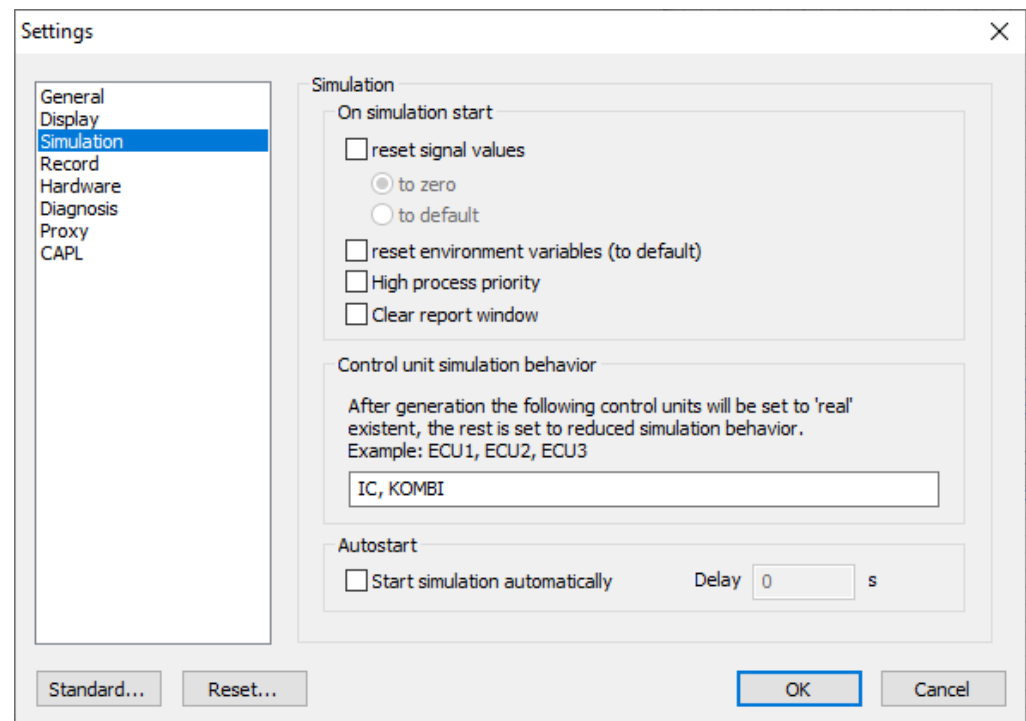


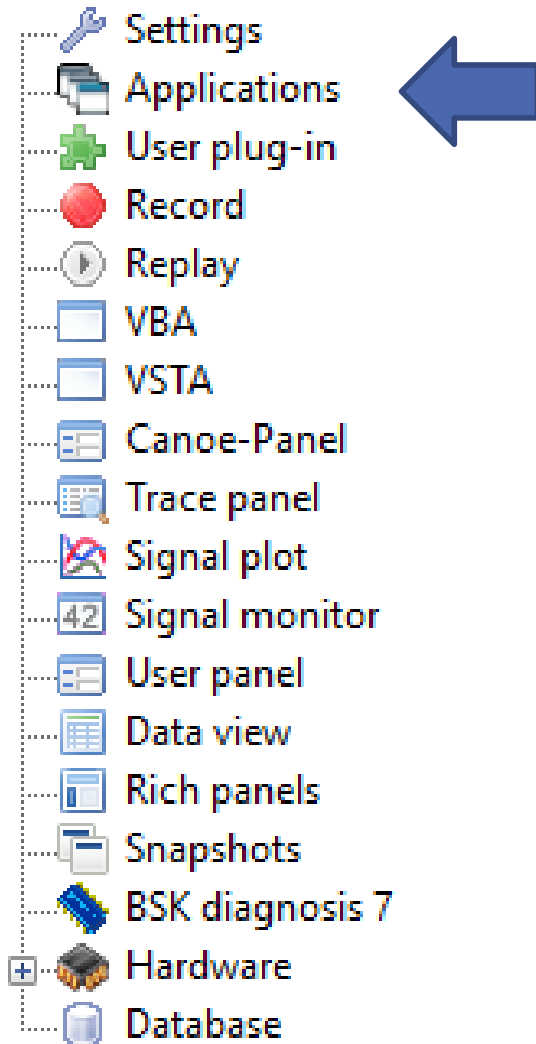
- Every entry is created by a system-plug-in (DII)
- System plug-ins are automatically loaded from System plug-ins folder
- New core functions can be added to CanEasy just by creating new plug-ins
- Next pages are showing a short description of all available plug-ins

Settings



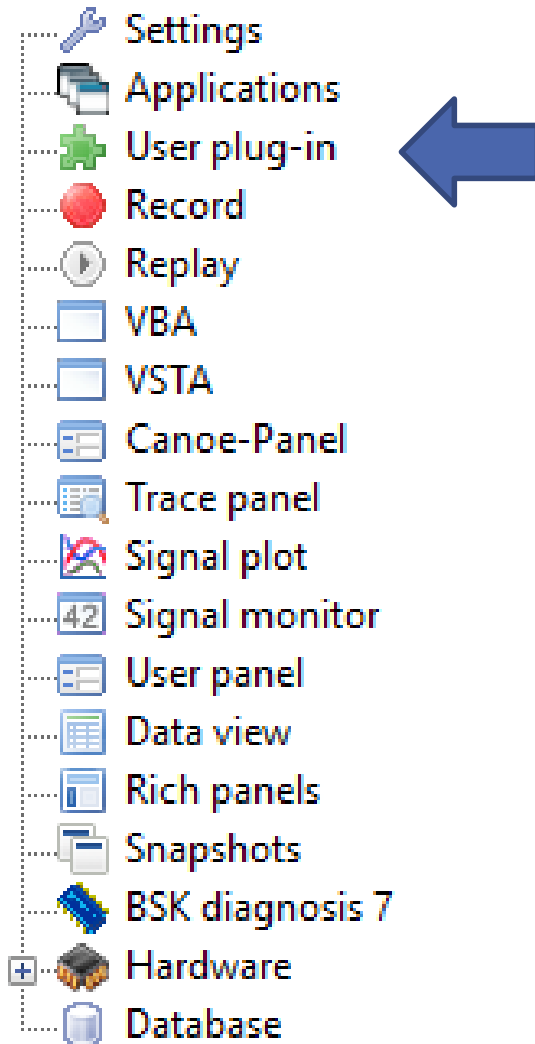
- Double click opens a dialog to change CanEasy setting like:
 - Show message-id in explorer view
 - Cyclic update of user interface
 - Use internal timestamps
 - BusOff recovery
 - ...



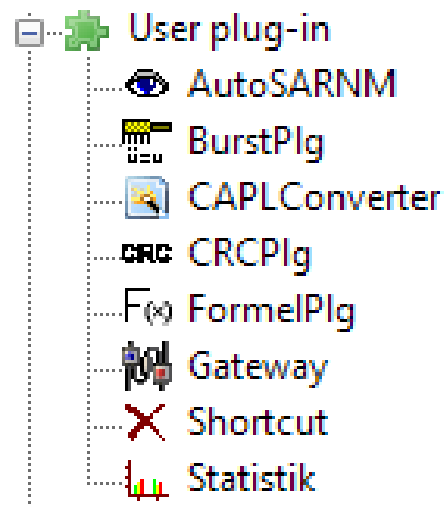


- Create application in VS-Code using your preferred programming language

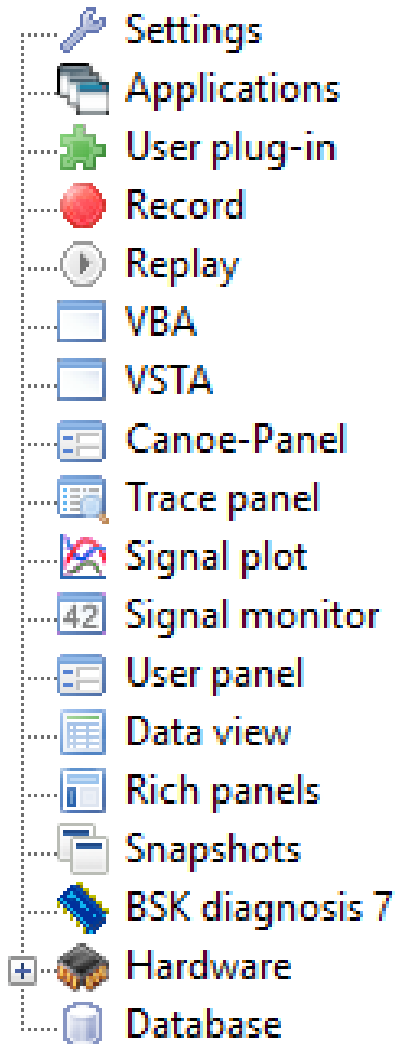
User plug-ins



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

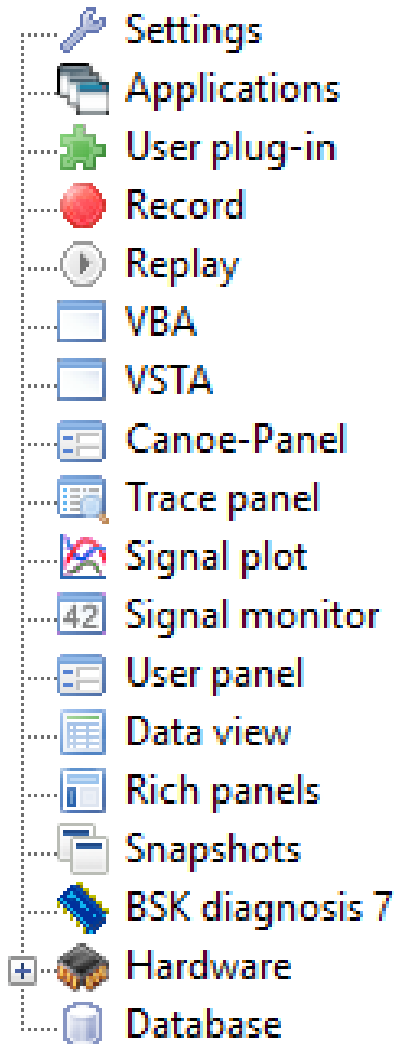


Record

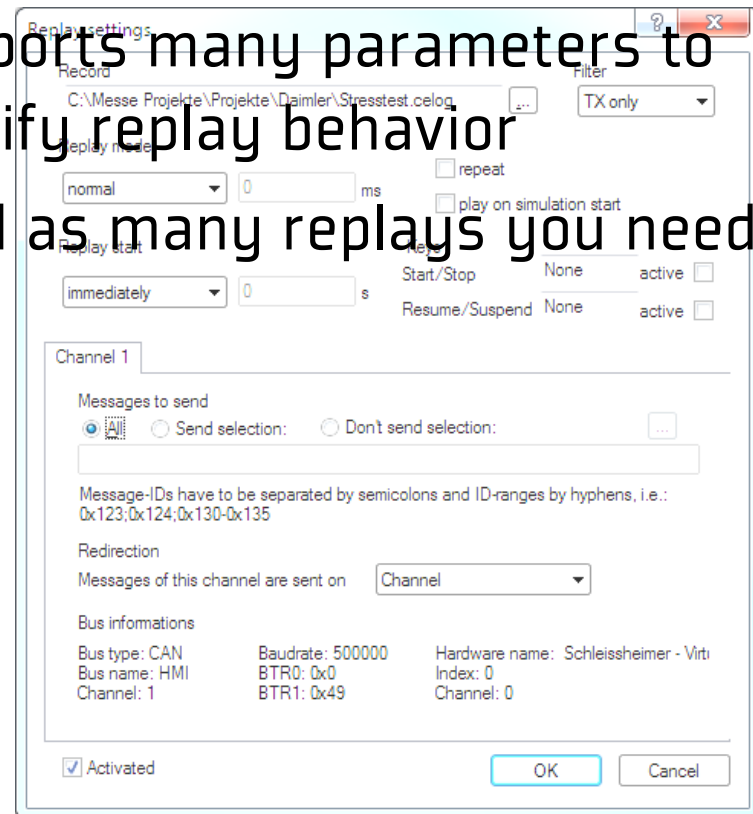


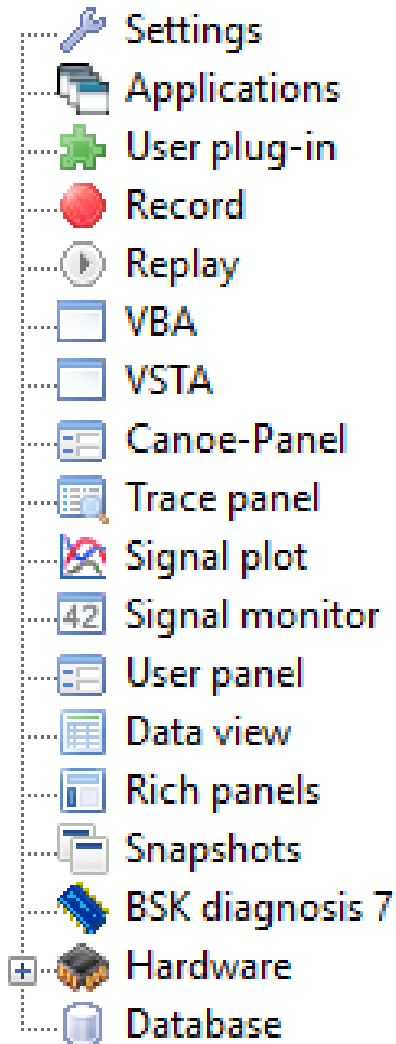
- Access to the CanEasy record
- LED is blinking if recording is active
- Record starts automatically on simulation start
- Record includes all received and transmitted CAN frames without any filter
- Load record to analyze with trace and plot

Replay

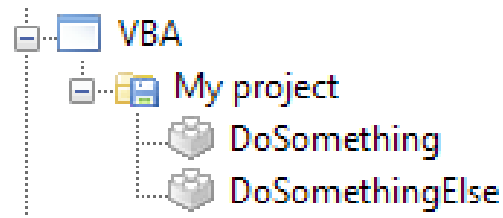


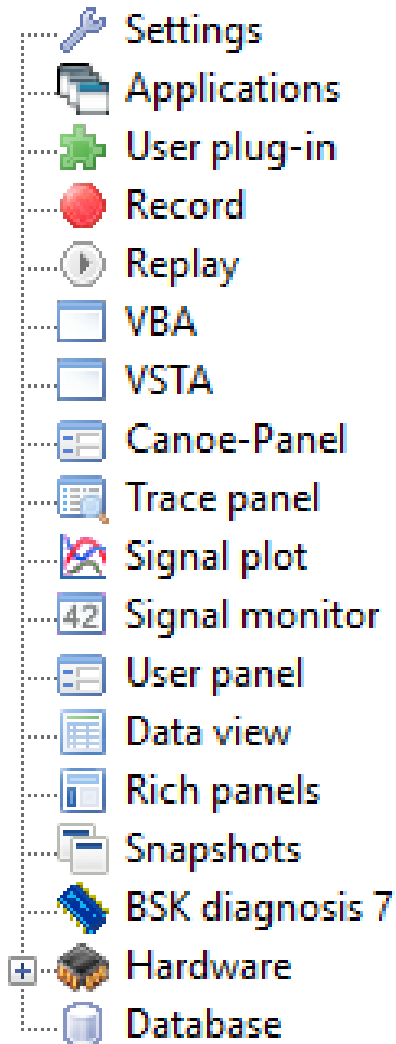
- Reproduce errors by replaying recorded files
- Supports many parameters to modify replay behavior
- Load as many replays you need





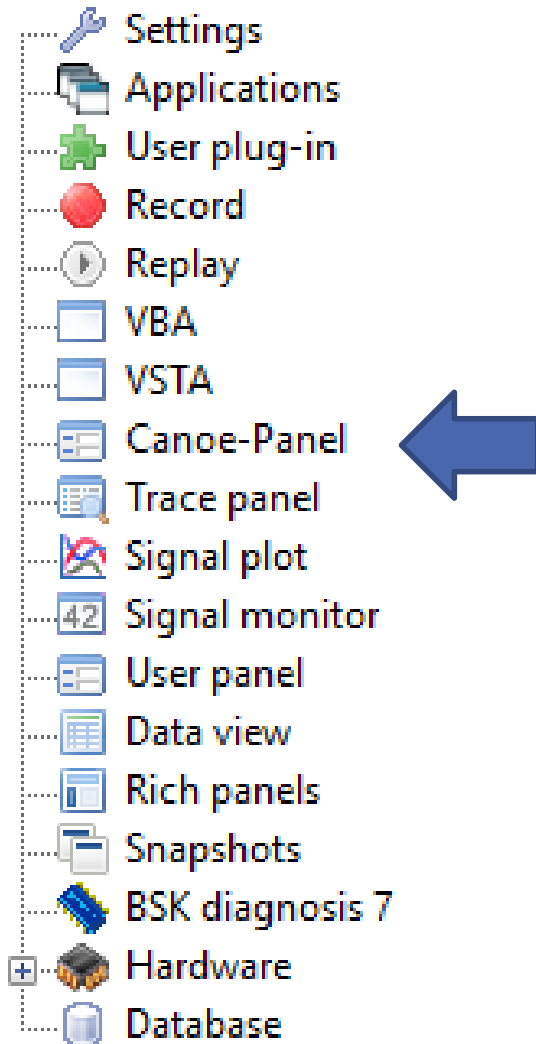
- Integrated IDE for Visual Basic for Applications (like Excel)
- Contains VBA projects
- Each VBA project provides all public macros
- Start macro via context menu





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

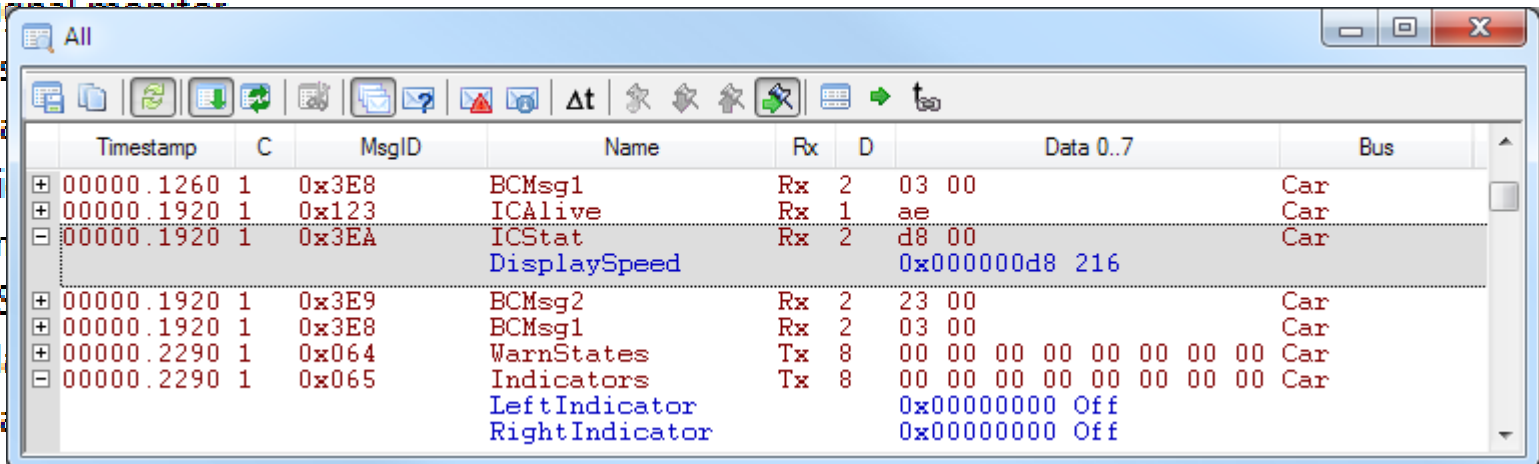
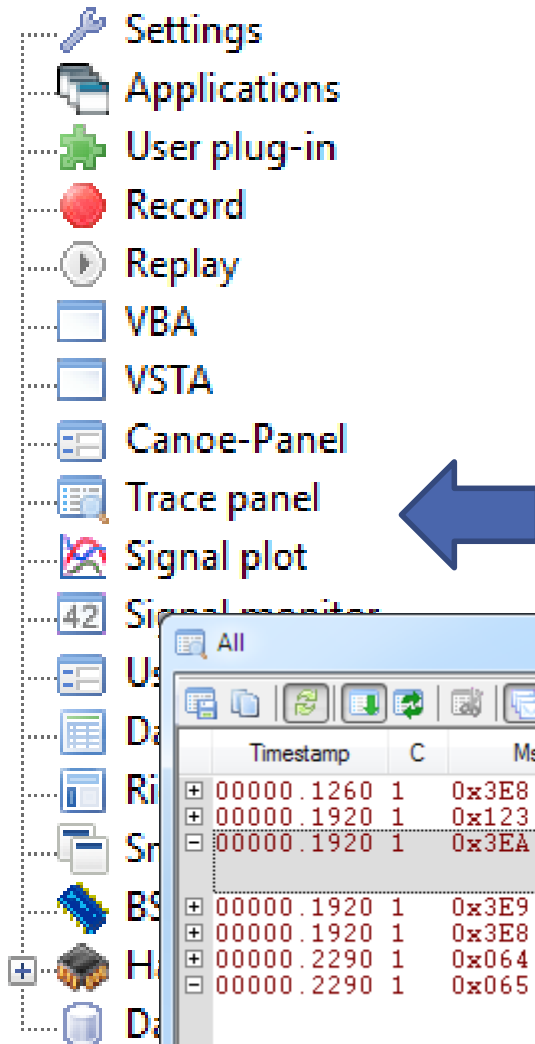
Canoe panel



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

Trace panel

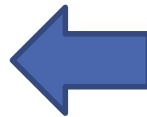
- Shows received and transmitted frames with their physical interpretation
- Allows analyzing large records



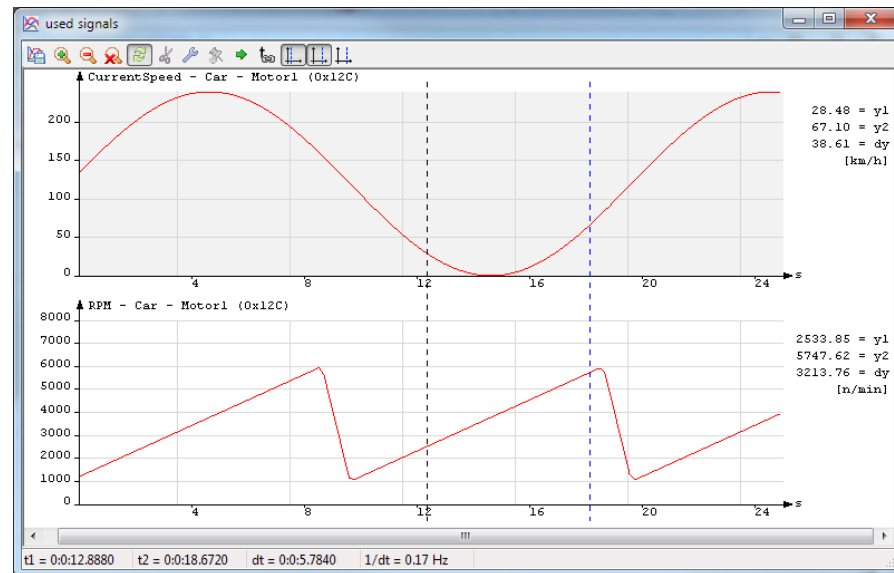
	Timestamp	C	MsgID	Name	Rx	D	Data 0..7	Bus
+	00000.1260	1	0x3E8	BCMsg1	Rx	2	03 00	Car
+	00000.1920	1	0x123	ICAlive	Rx	1	ae	Car
-	00000.1920	1	0x3EA	ICStat	Rx	2	d8 00	Car
				DisplaySpeed			0x000000d8 216	
+	00000.1920	1	0x3E9	BCMsg2	Rx	2	23 00	Car
+	00000.1920	1	0x3E8	BCMsg1	Rx	2	03 00	Car
+	00000.2290	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

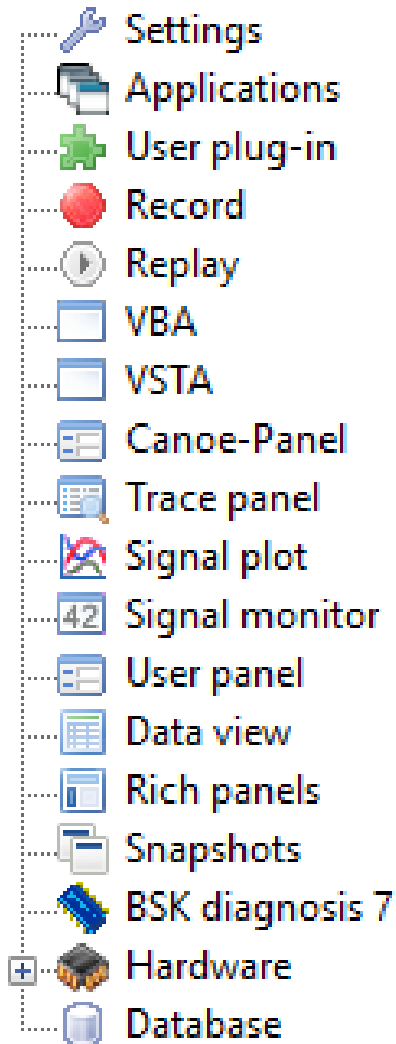
- Settings
- Applications
- User plug-in
- Record
- Replay
- VBA
- VSTA
- Canoe-Panel
- Trace panel
- Signal plot
- Signal monitor
- User panel
- Data view
- Rich panels
- Snapshots
- BSK diagnosis 7
- Hardware
- Database



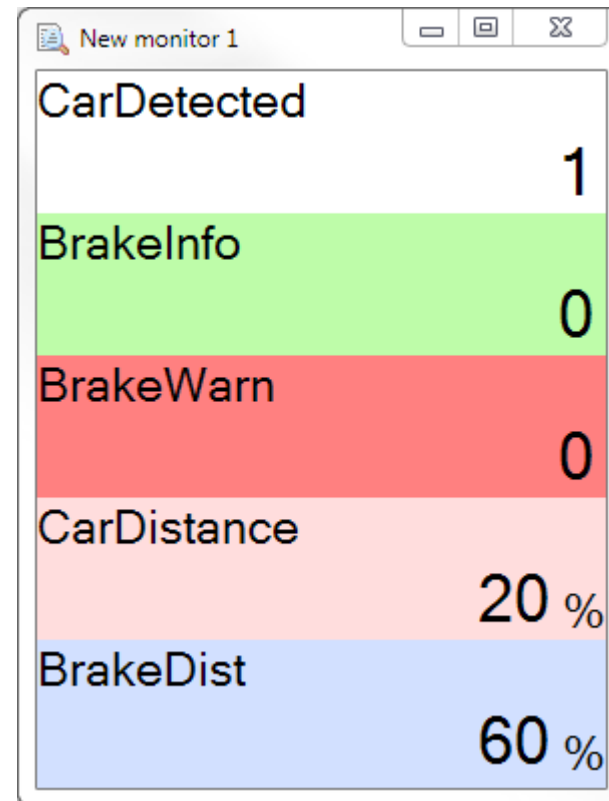
- Like the trace, the plot shows only transmitted and received signals



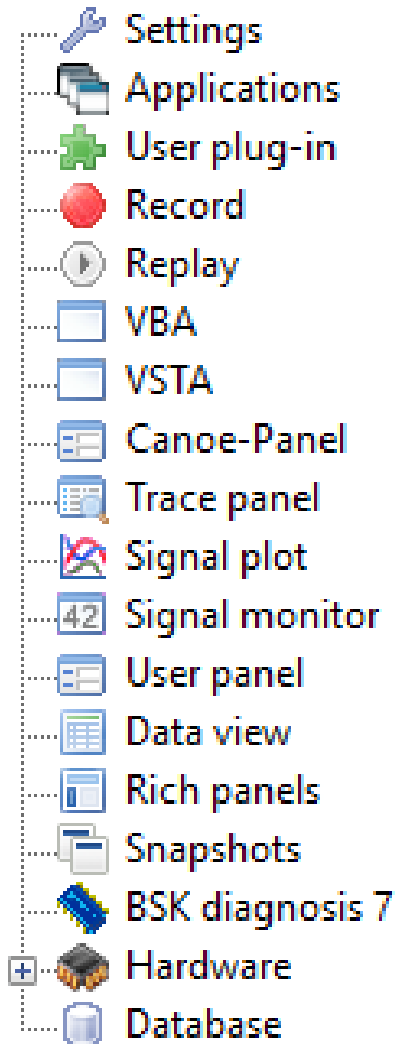
Signal monitor



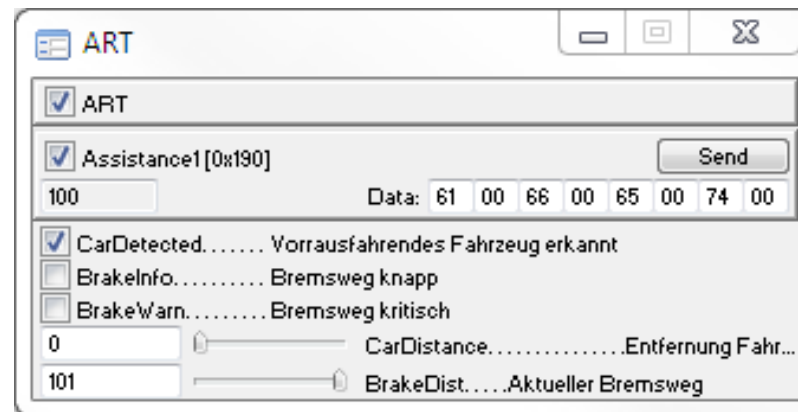
- Monitor important signal values with a large font



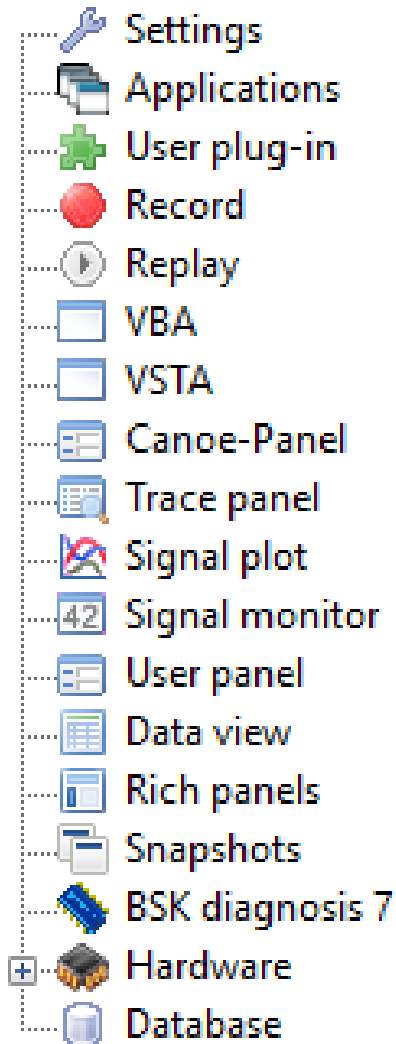
User panel



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



Data view



- Monitor and change message payload, signals and variable values
- Allows scrolling and supports a variety of value elements

New data view							
Name	Value	Unit	Type	Minimum	Maximum	Description	
<input checked="" type="checkbox"/> Assistance1	0x01 0x00 0x00 0x64 0x14 0x00 0x...		UChar Array				
<input checked="" type="checkbox"/> CarDetected	1		UChar			vehicle ahead detected	
<input checked="" type="checkbox"/> BrakeInfo	0		UChar			braking distance to short	
<input checked="" type="checkbox"/> BrakeWarn	0		UChar			brake distance critical	
<input checked="" type="checkbox"/> CarDistance	100	%	UChar	0	100	vehicle distance	
<input checked="" type="checkbox"/> BrakeDist	20	%	UChar	0	100	actual brake distance	
<input checked="" type="checkbox"/> BCMMsg1	0x00 0x00		UChar Array				
<input checked="" type="checkbox"/> ODOValue	0	km	UShort			summary odometer	
<input checked="" type="checkbox"/> BCMMsg2	0x00 0x00		UChar Array				
<input checked="" type="checkbox"/> TRIPValue	0	km	UShort	0	6553.5	trip distance counter	
<input checked="" type="checkbox"/> ICAlive	0x00		UChar Array				
<input checked="" type="checkbox"/> AliveCounter	0		UChar			Alive Counter Instrument Cluster	
<input checked="" type="checkbox"/> ICStat	0x00 0x00		UChar Array				
<input checked="" type="checkbox"/> DisplaySpeed	0	km/h	UShort	0	280	displayed velocity	
<input checked="" type="checkbox"/> XCP_Resp	0x00 0x00 0x00 0x00 0x00 0x00 0x...		UChar Array				
<input checked="" type="checkbox"/> DisplayProperties	0x01 0x00 0x00 0x00 0x00 0x00 0x...		UChar Array				
<input checked="" type="checkbox"/> ActiveClient	1		UChar	1	1	activer displayclient	
<input checked="" type="checkbox"/> Backlight	0		UChar			background illumination	
<input checked="" type="checkbox"/> Motor1	0x00 0x00 0x00 0x00 0x00 0x00 0x...		UChar Array				
<input checked="" type="checkbox"/> CurrentSpeed	0	km/h	UShort	0	240	actual velocity	
<input checked="" type="checkbox"/> RPM	0	n/min	UShort	0	8000	actual revolution	
<input checked="" type="checkbox"/> Motor2	0x00 0x50 0x00 0x50 0x00 0x00 0x...		UChar Array				
<input checked="" type="checkbox"/> Tanklevel	0		UChar			actual fuel level	
<input checked="" type="checkbox"/> CoolantTemp	80		UChar			cooling water temperature	
<input checked="" type="checkbox"/> OilTemp	0		UChar			oil temperature	

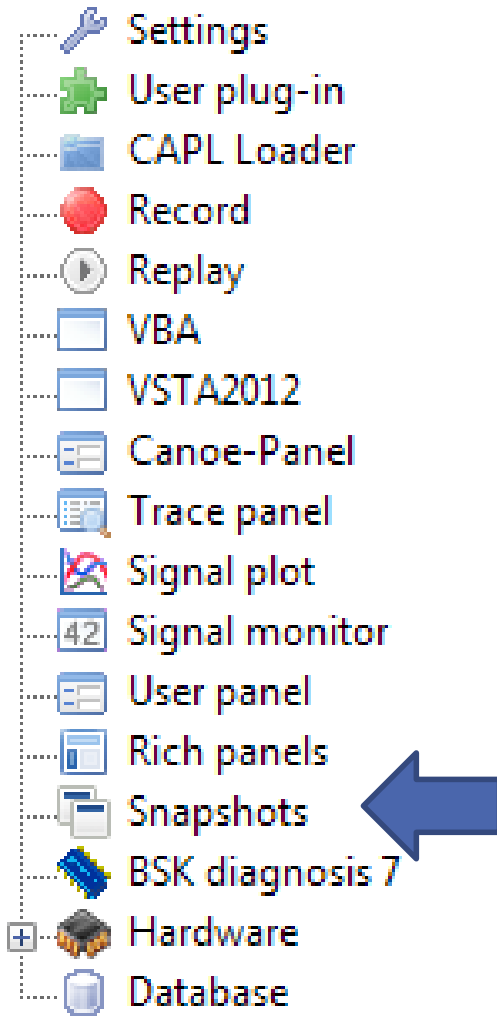
Rich panels



Settings
Applica
User pl
Record
Replay
VBA
VSTA
Canoe-
Trace p
Signal p
Signal monitor
User panel
Data view
Rich panels
Snapshots
BSK diagnosis 7
Hardware
Database

- 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

```
BSK Diagnose - 7 V2.00.039 Build 000 von 2016-06-01 bskd32.DLL-Version V2.00....

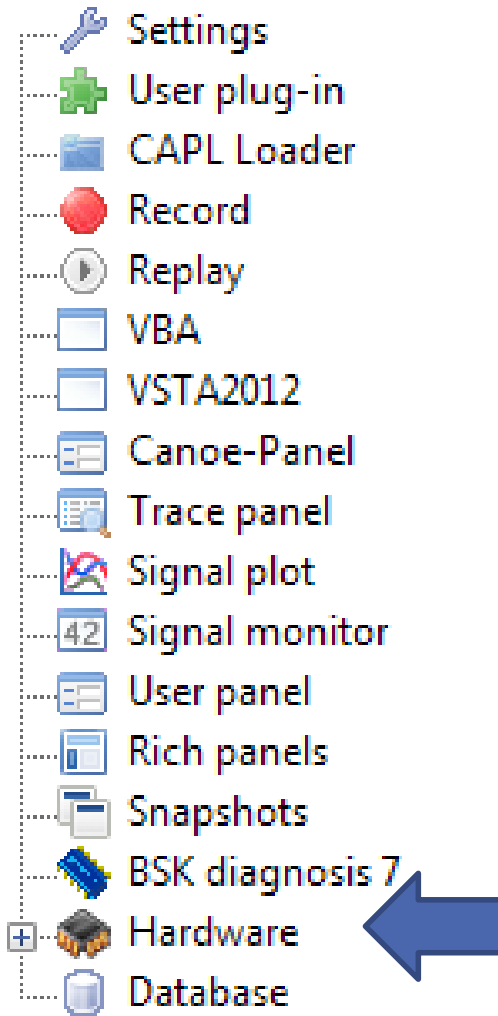
Universelle Diagnose fuer Windows

(C) 1988-2016 BSK Datentechnik GmbH, D-35418 Buseck (2016-06-01)
BSKD.DLL V2.00.039 Autor: HS/TD/TL/KHD
BSKD32.DLL V2.00.008 Autor: TL/UW
BSKD32.EXE V2.00.008 Autor: TL

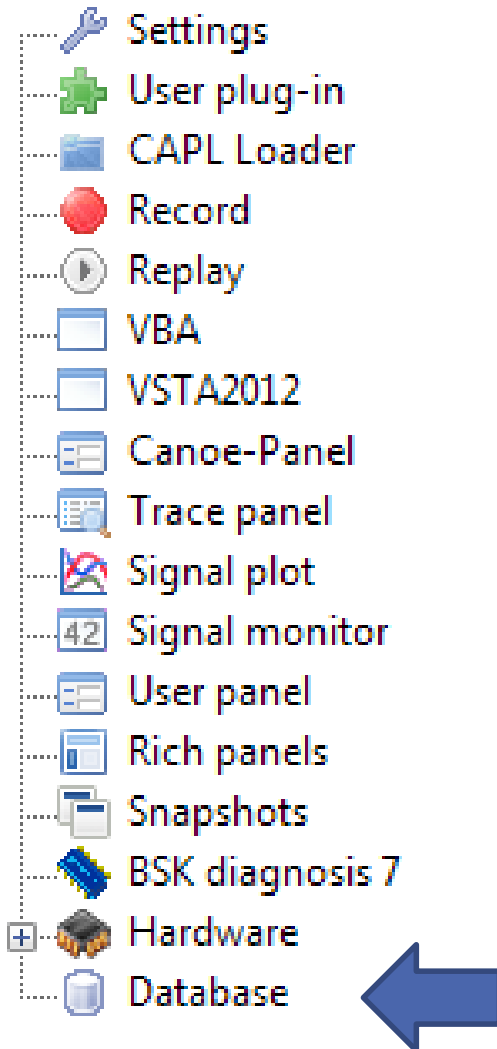
(Hilfe: F1, ggf. LM bzw. Aufruf mit /?, Ende: X oder Q)

Makrodatei "BSKD.MAC" wird gelesen ("C:\Program Files (x86)\CanEasy\BSKD\BSKD.MAC")
Makrodatei "Example.mac" wird gelesen ("C:\Program Files (x86)\CanEasy Demonstrator-Suite\BSKD\Example.mac")
109 Makros gelesen ("C:\Program Files (x86)\CanEasy\BSKD\BSKD.MAC","C:\Program Files (x86)\CanEasy Demonstrator-Suite\BSKD\Example.mac")
Symboldatei "BSKD.SYM" wird gelesen ("C:\Program Files (x86)\CanEasy\BSKD\BSKD.SYM")
66 Symbole gelesen ("C:\Program Files (x86)\CanEasy\BSKD\BSKD.SYM")
Makrodatei "ExCar.mac" wird gelesen ("C:\Program Files (x86)\CanEasy Demonstrator-Suite\BSKD\ExCar.mac")
```

- 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