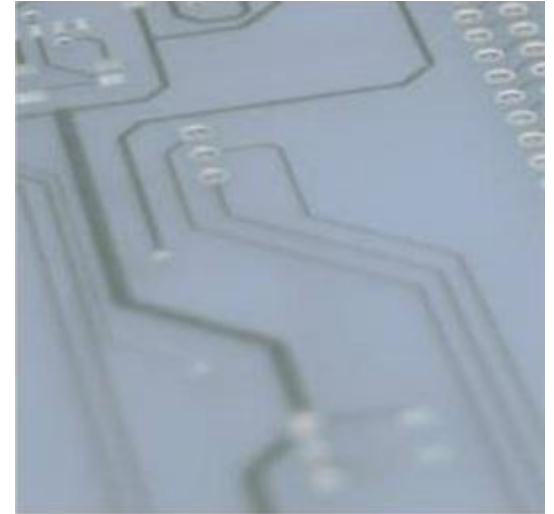
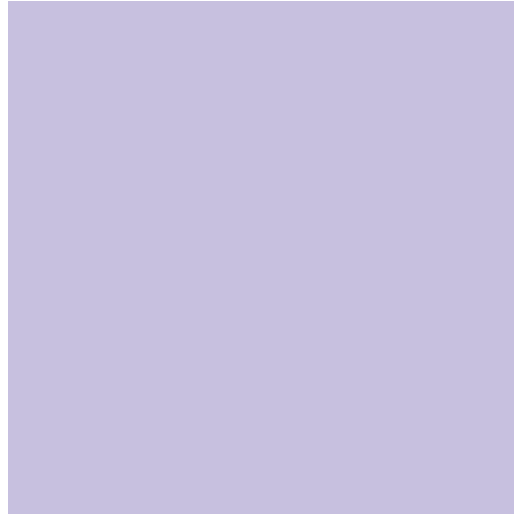
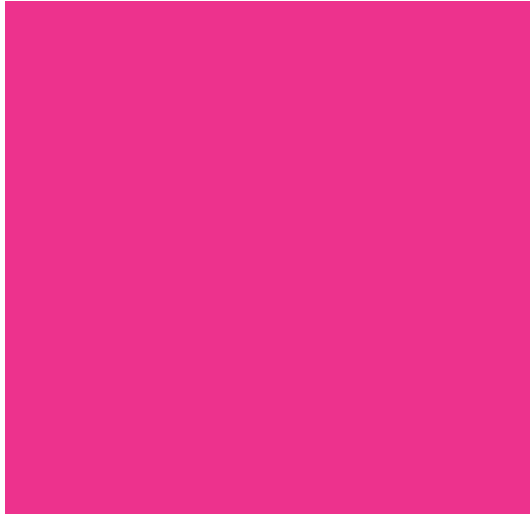


Shortcut Plugin

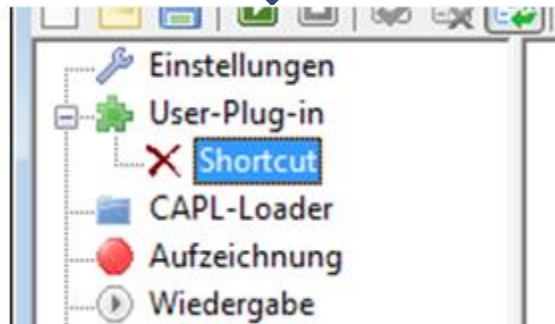
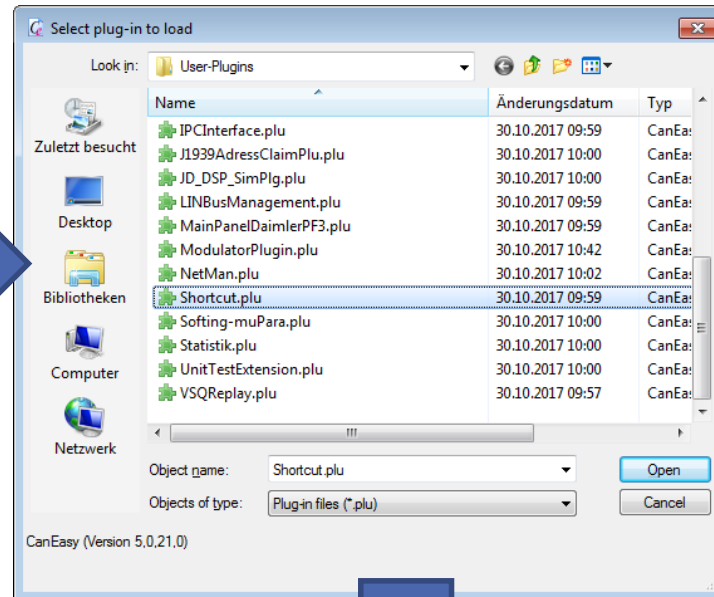
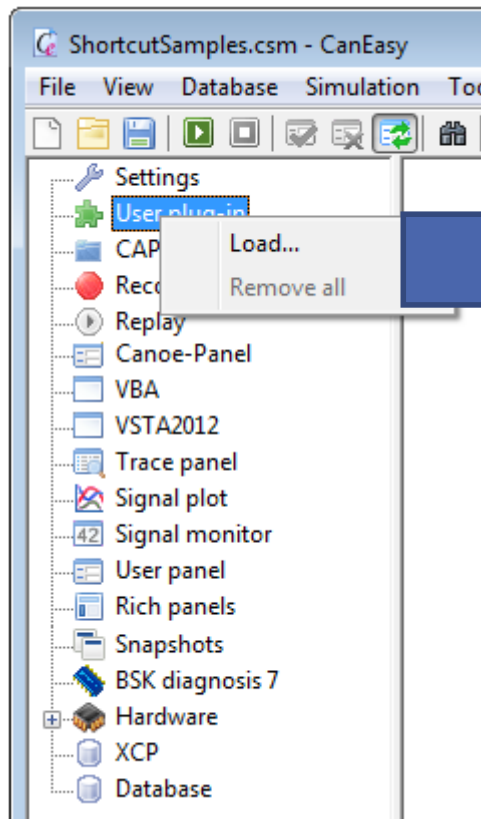


Michael Gerhardt
Sven Schuchmann

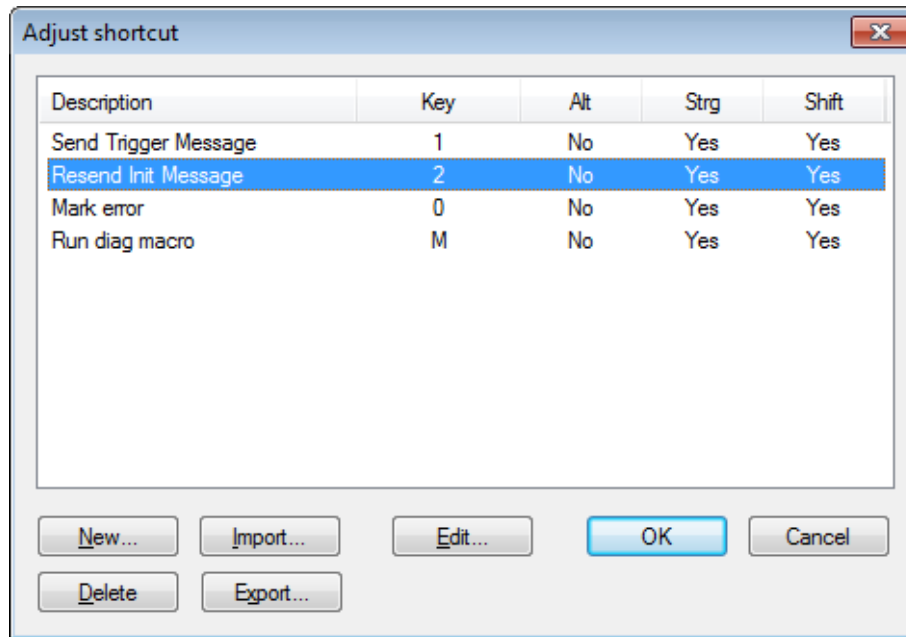
Shortcut Plugin – Motivation

- Fast way for shortcut based user interaction with CanEasy functions
- Quick and simple configuration
- Trigger possible even if CanEasy is not focused (global shortcuts)

Shortcut Plugin – Start



Shortcut Plugin – Main Dialog



Standard control elements to edit shortcuts

- New
- Delete
- Import
- Export
- Edit

Shortcut Plugin – Edit

Edit key combination

Key: STRG + UMSCHALT + 1

Description: Send Trigger Message

☒ Shortcut can be triggered systemwide

Actions:

- Send any message

Settings

Bus: //DB/Channel:HMI

Message-ID: 0x123 ☒ STD ☐ XTD

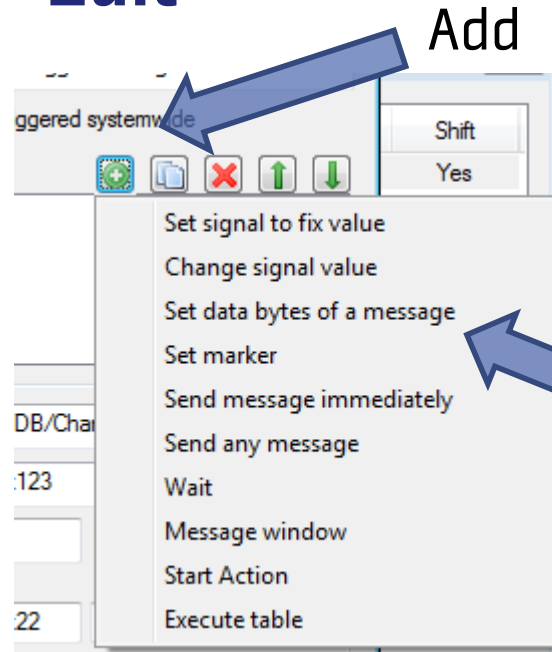
DLC: 8

Data bytes

1-4:	0x11	0x22	0x33	0x44
5-8:	0x00	0x00	0x00	0x00

OK Cancel

Parameters for
action



List of
available actions

- Add, duplicate, remove or change order of actions
- Multiple actions, executed one after the other
- Execution order is top to bottom

Shortcut Plugin – Available Actions

- **Set signal to fix value**
Sets a signal from the data base to a defined fixed value.
 - **Change signal value**
Changes a signal value by adding a defined value. This value can also have a negative sign.
 - **Set data bytes of a message**
Sets all 8 data bytes of a message to a defined fixed value. Depending on the type and setting of the transmission control assigned to this message, this does not necessarily mean that it is sent immediately.
 - **Set marker**
Sets a marker in all trace windows.
 - **Send message immediately**
Initiates immediate sending of a set message.
-

Shortcut Plugin – Available Actions



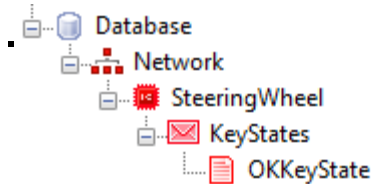
- **Send any message**
Enables any message to be sent. The bus the message should be sent to and its ID can be specified. Moreover, the number of data bytes and their values can be selected.
 - **Wait**
Halts the execution of shortcut for a period defined in milliseconds.
 - **Message window**
Shows a modal dialog box with freely editable text. Execution of the shortcut is halted until the dialog box is confirmed and closed.
 - **Execute table**
Executes the given table
-

- Start Action:
 - BSKD7|Execute
 - CanEasy|SaveWorkspace
 - CFG-Import
 - LDF-Export
 - LDF-Import
 - NCF-Export
 - NCF-Import
 - Scheduler*|ActivateTablePersistent
 - Scheduler*|RunTableOnce
 - Scheduler*|Stop
 - VBA|Run|[NameOfPublicMacro]
 - VBA|NewProjectFromFiles
 - VBA|Stop
 - FormelPlugin|[NameOfFormula]

* CanEasy Version 4 scheduler

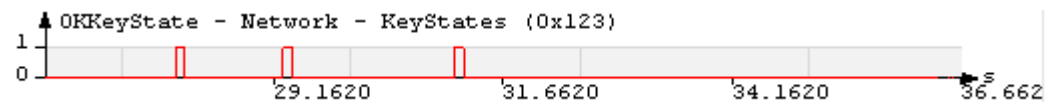
Example – Simulate simple key press

- The CAN signal "OKKeyState" directly relates to the state of the OK button.
- The signal is part of the message "KeyStates" which located in the "SteeringWheel" ECU.



The following actions need to be added to the shortcut

- „Set signal to fix value“ => "Sig:OKKeyState", New value = 1
- „Send message immediately“ => "Msg:KeyStates"
- Wait => 100 ms
- „Set signal to fix value“ => "Sig:OKKeyState", New value = 0
- „Send message immediately“ => "Msg:KeyStates"



Shortcut Plugin – Final tips

- Do not use frequently used system- or application wide shortcuts (e.g. Ctrl-n, Ctrl-c) or even worse simple alphanumerical keys.
- No support for environment variables or attributes.
- Use only for straight forward actions, otherwise use the more complex Scheduler.

Thank you for your attention!
