

LogiCom GmbH

Bus-FMS-Standard

Bus-FMS-Standard-Simulation
User Manual

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fms_bus_simulation_211_manual_e

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1 Introduction

1.1 Work

With the program *BusFMSSim* (Bus-FMS-Standard-Simulation) you can create, change individually all CAN data packages of Bus-FMS-Standard (Version 00.02) and send them to a CAN-Adapter or in a logfile.

1.2 System requirements

- Processor is Pentium-class
- Windows NT 4.0 with Service Pack 5 or 6
Windows 2000 Professional
Windows XP Professional
Windows 7
- 64 MB RAM
- 10 MB free Hard Disc Drive (plus 20 MB of temporary memory for the installation)
- SVGA-Monitor with minimum 256 colours and a resolution of 800 x 600 pixels
- Installed CAN-Adapter from Vector Informatik GmbH or IXXAT Automation GmbH

1.3 Supported CAN-Adapter

IXXAT Automation GmbH:

- PC-T 04/PCI
- PC-T 04/104
- PC-T 03
- CANdy lite
- iPC-I 320/PCI
- iPC-I 320/104
- iPC-I 320
- iPC-I 165/PCI
- iPC-I 165
- CAN@net
- tinCAN 161
- USB-to-CAN II
- USB-to-CAN compact
- CANBlue

Vector Informatik GmbH:

- CANcardX
- CANcardY
- CANcardXL
- CANcard2
- CAN-AC2-PCI
- CAN-AC2
- CANpari
- EDICcard
- CANcaseXL
- CANboardXL
- CANboardXL_C

2 Installation

2.1 Driver for CAN-Adapter

Requirements for the use of all functions of the program *BusFMSSim* (Bus-FMS-Standard-Simulation) are the installation and put in operation of a CAN-Adapter from Vector Informatik GmbH or IXXAT Automation GmbH.

To this you have to install the fitting CAN-Driver-Library:

IXXAT Automation GmbH	VCI V2, Version 2.16
For Windows 7 user:	VCI V3, Version 3.3
Vector Informatik GmbH	CAN Driver Library, Version 4.3

The CAN-Driver-Library and further information could be found on the internet pages of the mentioned companies:

IXXAT Automation GmbH	http://www.ixxat.de
Vector Informatik GmbH	http://www.vector-informatik.de

2.2 Program „BusFMSSim“

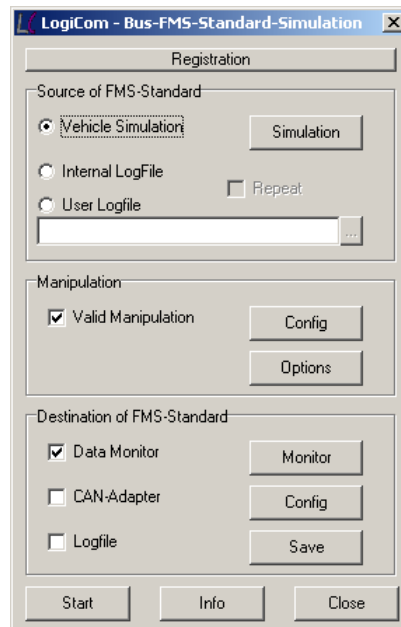
For the installation of the program *BusFMSSim* (Bus-FMS-Standard-Simulation) please use the installation program *fms_bus_simulation_210_setup.exe*, which could be started for example with Windows Explorer or by “double-click” on the file.


Please follow the instructions of the installation program.

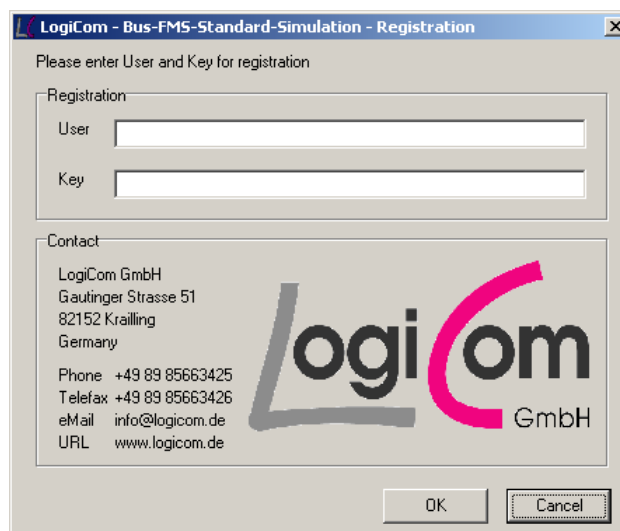
3 User manual

3.1 Registration

During the first run of the program *BusFMSSim* (Bus-FMS-Standard-Simulation) you should to do your registration.



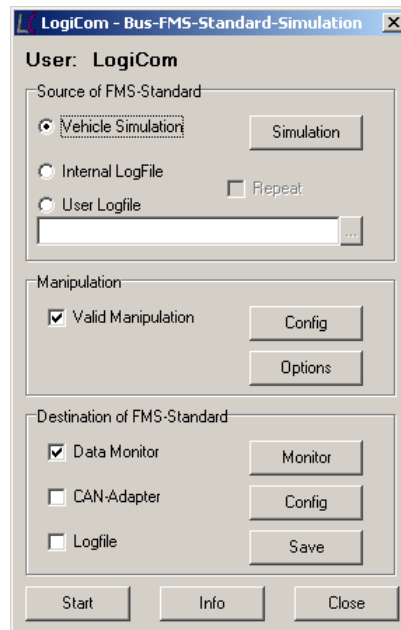
Please press the button  and type in the *User* and *Key* you have got from LogiCom.



After the registration you can use the program *BusFMSSim* (Bus-FMS-Standard-Simulation) with all its functions without any restrictions and without any limitation.

3.2 Program „BusFMSSim“

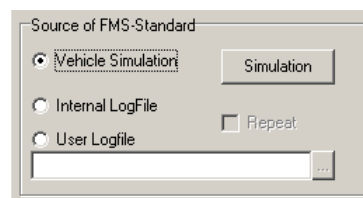
After the start of the program *BusFMSSim* (Bus-FMS-Standard-Simulation) you will see the following main window. All actions will be started from this window.




3.2.1 Group „Source of Bus-FMS-Standard“

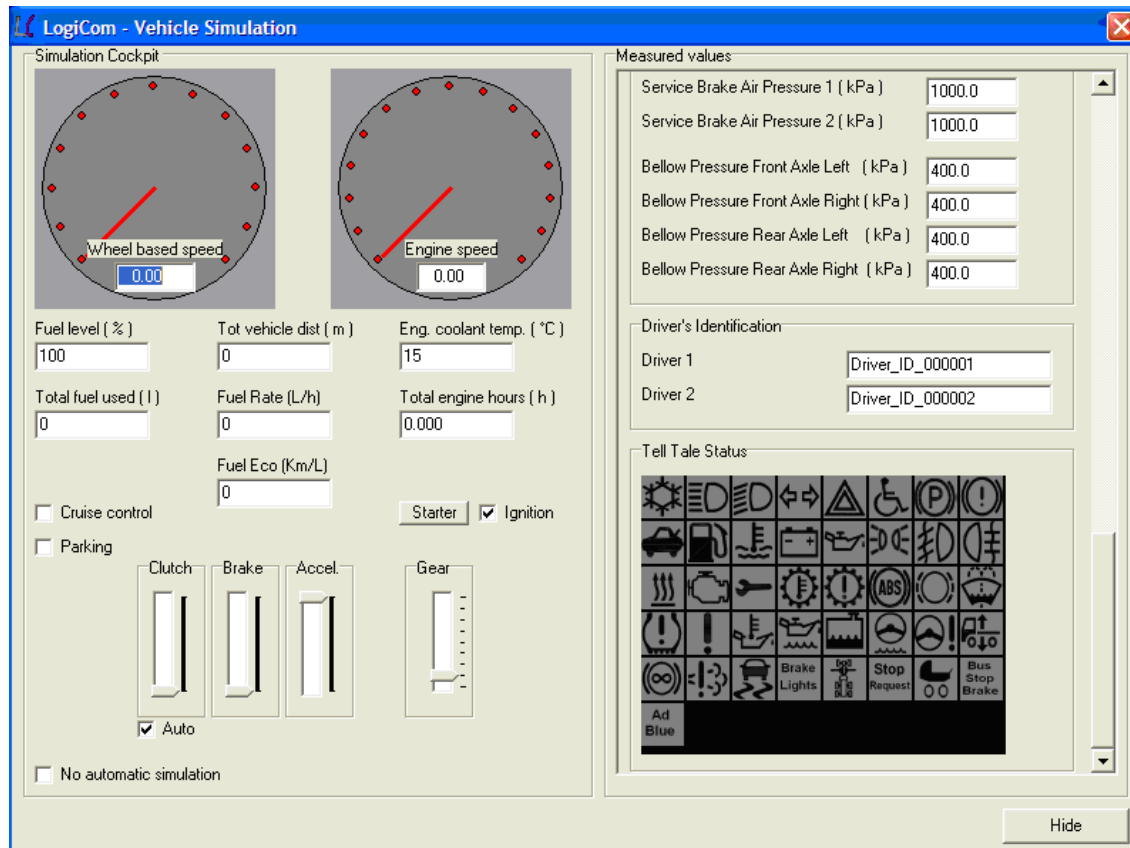
In the first group of the main window *Source of FMS-Standard* you choose the source for the Bus-FMS-Standard data packages. You have the choice between *Vehicle Simulation*, *Internal Logfile* or *User Logfile*.

If you choose *Vehicle Simulation* all Bus-FMS-Standard data packages will be produced according the vehicle simulation. By choosing *Internal Logfile* or *User Logfile* all stored data packages will be sent without changes.



3.2.1.1 Vehicle Simulation

If you choose *Vehicle Simulation* for the source of Bus-FMS-Standard data packages, you can start the simulation by pressing the button .




With the vehicle simulation you can change the content of the Bus-FMS-Standard data packages by using the cockpit window.

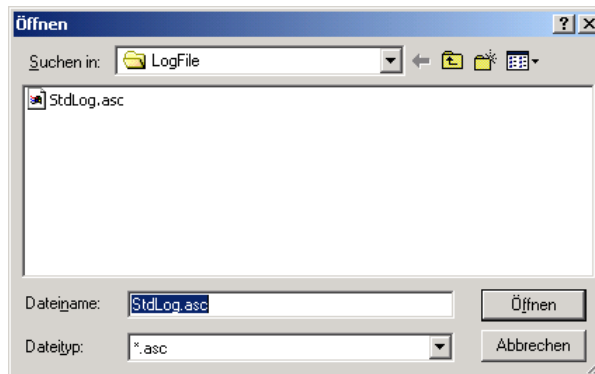
By clicking on the symbols of Tell Tale Status you can change the status.

3.2.1.2 Internal Logfile

If you choose *Internal Logfile* for the source of Bus-FMS-Standard data packages, an internal Logfile will be used.

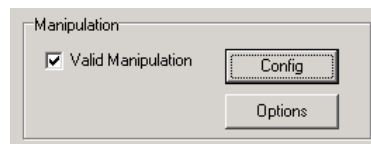
3.2.1.3 User Logfile

If you choose *User Logfile* for the source of Bus-FMS-Standard data packages, you can choose the filename by pressing the button .



3.2.2 Group „Manipulation”

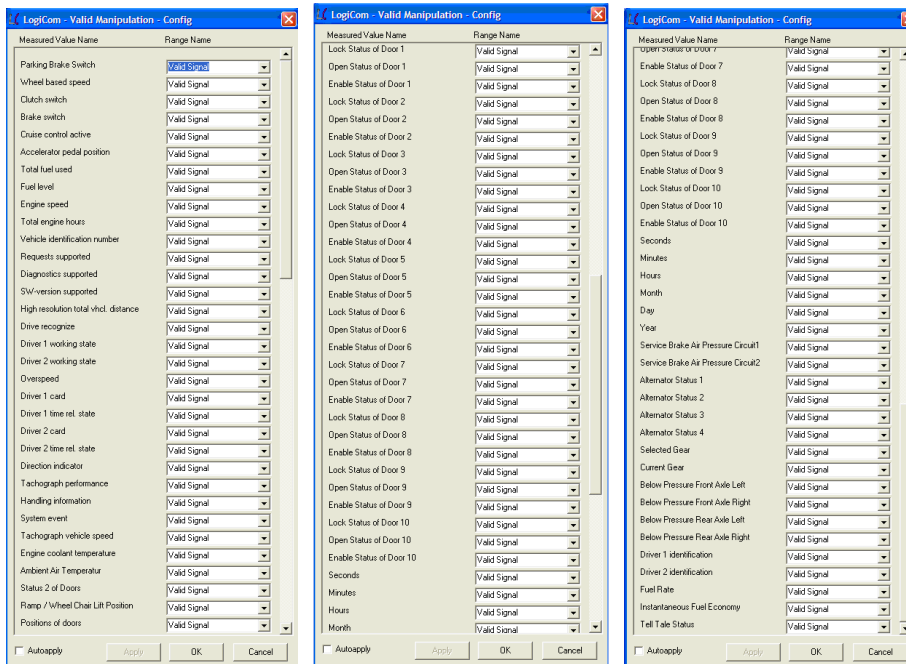
Within the second group of the main window *Manipulation* you can directly manipulate the Bus-FMS-Standard data packages for test purpose.




3.2.2.1 Valid Manipulation

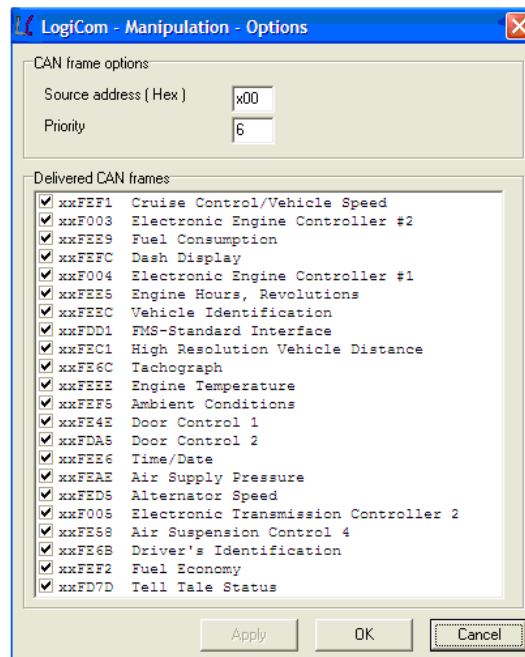
You can change the valid flags for manipulation of the content of the Bus-FMS-Standard data packages within the window *Valid Manipulation*.

By pressing the button  you can change the valid flags of each data field individually.



3.2.2.2 Options

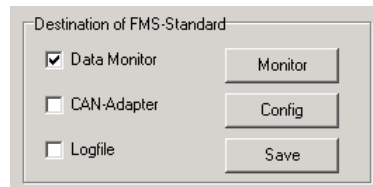
By pressing the button  you can change additional configurations for the generation of the Bus-FMS-Standard data packages.




You can define data fields in the data packages and switch off individual data packages.

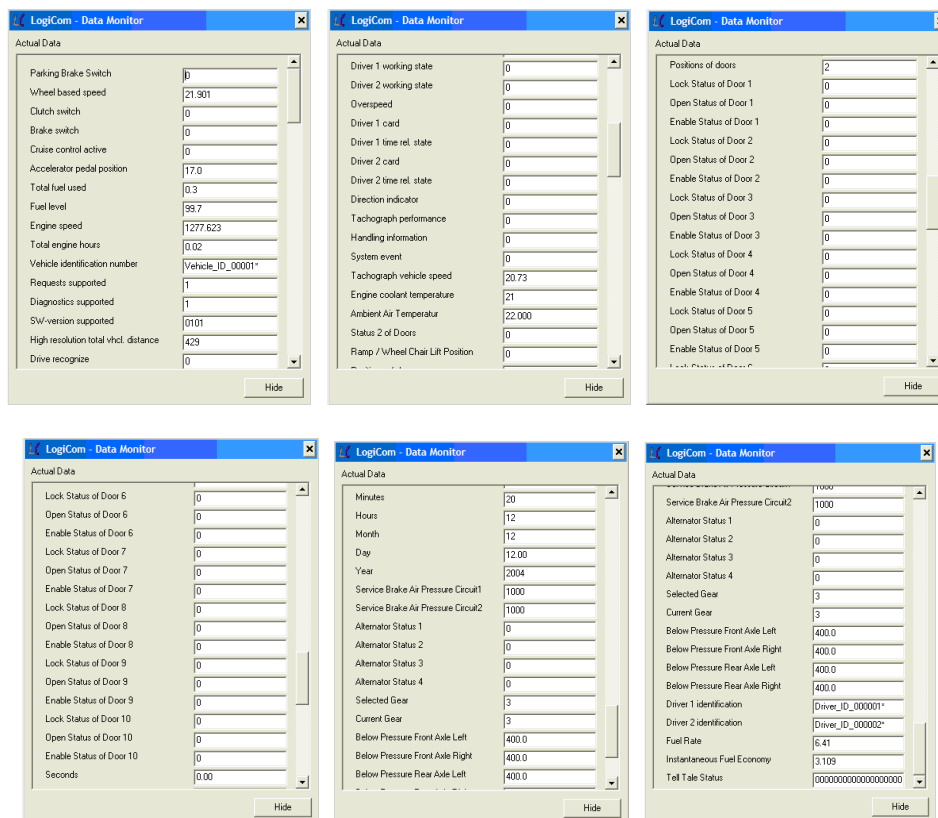
3.2.3 Group „Destination of Bus-FMS-Standard”

In the third group of the main window *Destination of Bus-FMS-Standard* the destination will be chosen. You have the choice between *Data Monitor*, *CAN-Adapter* and/or *Logfile*.




3.2.3.1 Data Monitor

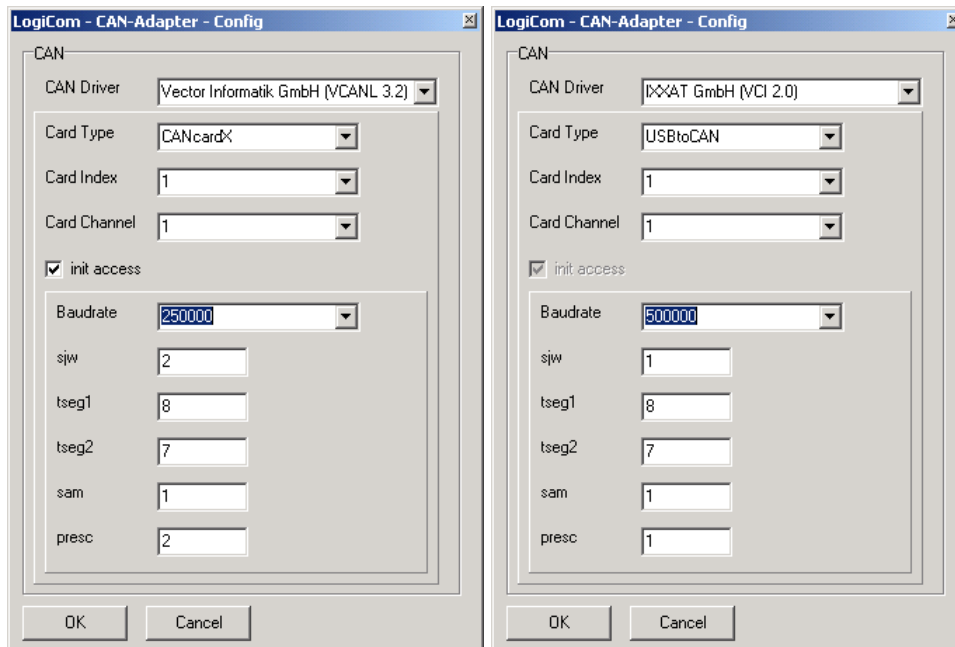
If you choose *Data Monitor* for the destination of the Bus-FMS-Standard data packages, you can start the data monitor by pressing the button .



The data monitor visualises all contents of the Bus-FMS-Standard data packages.


3.2.3.2 CAN-Adapter

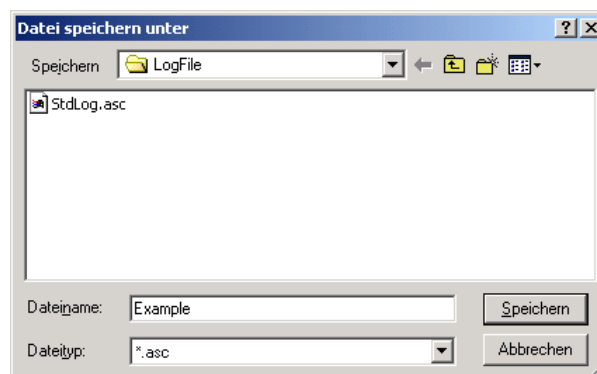
If you choose *CAN-Adapter* for the destination, you can configure the installed CAN-Adapter cards by pressing the button .



More information about the configuration of the CAN-Adapter could be found in the product manuals of the manufacturer.

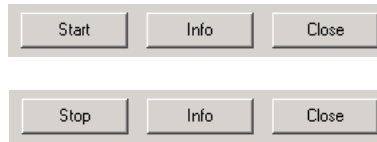
3.2.3.3 Logfile



If you choose *Logfile* for the destination, you can choose a Logfile for the save of the data by pressing the button .





3.2.4 Main group

By pressing the buttons of the main group you can start/stop the generation and the output of the Bus-FMS-Standard data packages. You can also have a look into the program information or close the program.



With the buttons  and  you can start/stop the generation and the output of the Bus-FMS-Standard data packages.

With the button  you can look into the program information. By pressing the button  you can close the program *BusFMSSim* (Bus-FMS-Standard-Simulation).

4 Appendix

4.1 User-Logfiles (ASC-File)

Structure and format

Description	Length	Position	Remark
Timestamp (Seconds)	8	1-8	dezimal representation (123.4567)
Space	1	9	20h
CAN-Identifier (Extended)	8	10-17	hexadezimal representation (29Bit)
CAN-Databytes	16	18-33	hexadezimal representation (64Bit)
CR	1	34	13h
LF	1	35	10h

Example

```

           1           2           3
123456789012345678901234567890123 4 5
000.2685 18F00300FFFAFFFFFFFFFFFFFFF<CR><LF>

```

```

Timestamp (Seconds):      000.2685
CAN-Identifier (Extended): 18F00300
CAN-Databytes:           FFFAFFFFFFFFFFFFFFF

```

4.2 History of Changes

4.2.1 Version 1.10

- Integration and changing: Frame Door Control 1
- Integration and changing: Frame Door Control 2

4.2.2 Version 1.11

- BugFix
 Requests Supported and Diagnostics Supported

4.2.3 Version 2.00

- Integration: Frame Driver's Identification
- Integration: Frame Fuel Economy
- Integration: Frame Tell Tale Status
- Correction: Bit position of Door Control 2

4.2.4 Version 2.10

- Integration IXXAT Driver VCI 3 for Windows 7 user

4.2.5 Version 2.11

- Extension of Driver ID 19 Byte