

BiDiB-Monitor

The BiDiB-Monitor gives you an overview of the connected BiDiB-Bus- Structure and the Nodes on the Bus.

Current Version : 0.6.5.3 vom 30. Oct. 2015

Download: [BiDiB-Monitor.zip](#)

Version in development : 0.6.6.12 vom 15. Dec. 2015

Download: [BiDiBMonitor-6-Entwicklung.zip](#)



This version can contain errors and malfunction which can result into failures on the bus respectively on nodes on the bus.



So, please don't unzip this version into the folder of the „current version“.

License: This program is freeware. There is no implicit nor explicit guarantee of the functionality or compensation in case of program faults.

Functions

Following functions are implemented in the current version:

- All nodes are shown in a Treeview.
- List of Firmware-Version, features and UID of all nodes.
- The status of the occupancy is shown in a table. If the node supports the feature, Address, Speed and moving direction
- You can change the features of a node.
- A short description can be set to the node.
- Modelclock with changeable clockseed / start- and endtime / repeat.
- Firmware-Update over BiDiB-Bus. It is possible to update several nodes, of the same type, automatically one after another.
- Booster can be switched on/off. Display the power consumption in a table.
- CV-Administration for BiDiB-Nodes.

New features and changes in the development version (without guaranteed function



):

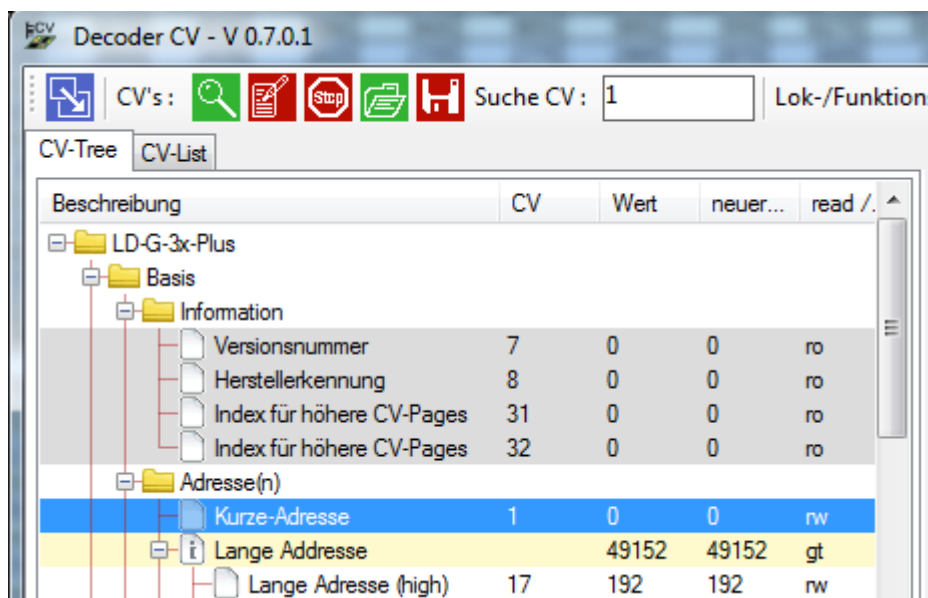
- Error solved: Refresh of CV-Values in TreeView under Win 10.
- New: CV-SML-File for Decoder Tams FD-M.
- New: Direct read/write of a single CV at Decoder-Administration.
- Error in Accessory-Query solved.
- Error in Multilanguage-Handling solved.
- Update: New Statusicons for Aspects of Accessories.
- New: Search of CV-Number in Decoder- and Node-CV-Administration.

- Update: Some new Decoder-Images (Zimo)
- Error in Handling of CV-Type „Long“ fixed.

CV-Administration

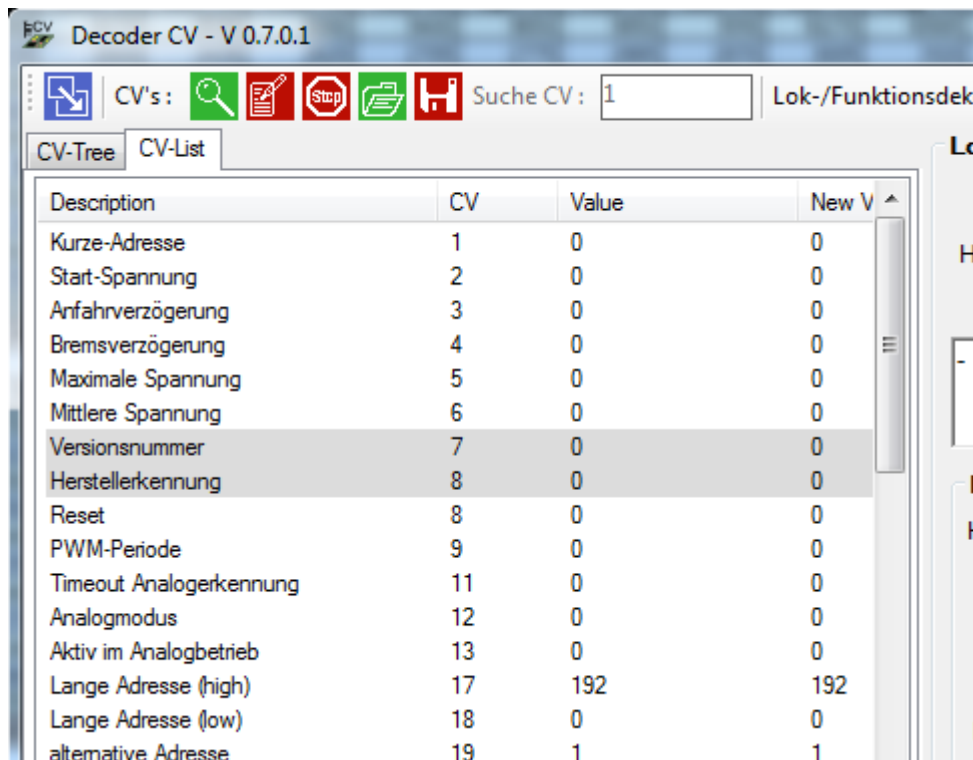
Since version 0.6.6.8, the following new functions are available in the CV-Administration for Decoder and Nodes.

CV search



You can insert a CV-Number at „Search CV:“ and press <Enter>. If the CV-Number not found, the background color of the textbox will change into „red“. If the CV-Number found, the CV-Entry in the TreeView will shown as the selected CV.

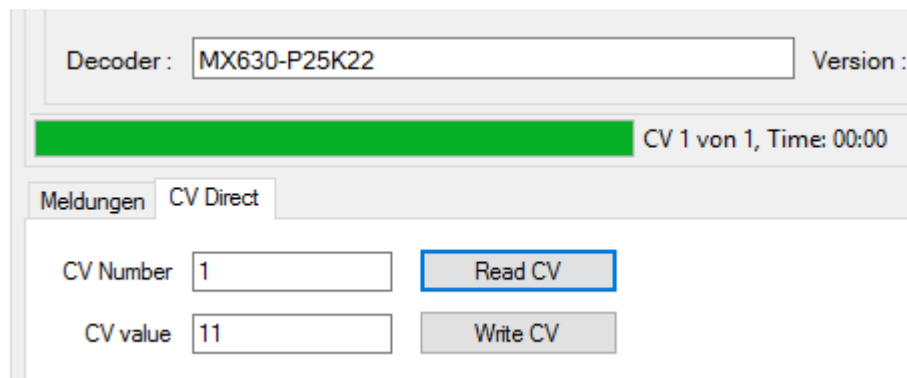
CV List



Beside the Treeview, a new Listview is available. A „click“ on the CV, open the related CV-Edit-Tab in the right part of the window.

The search function does not work in the Listview.

CV direct read/write



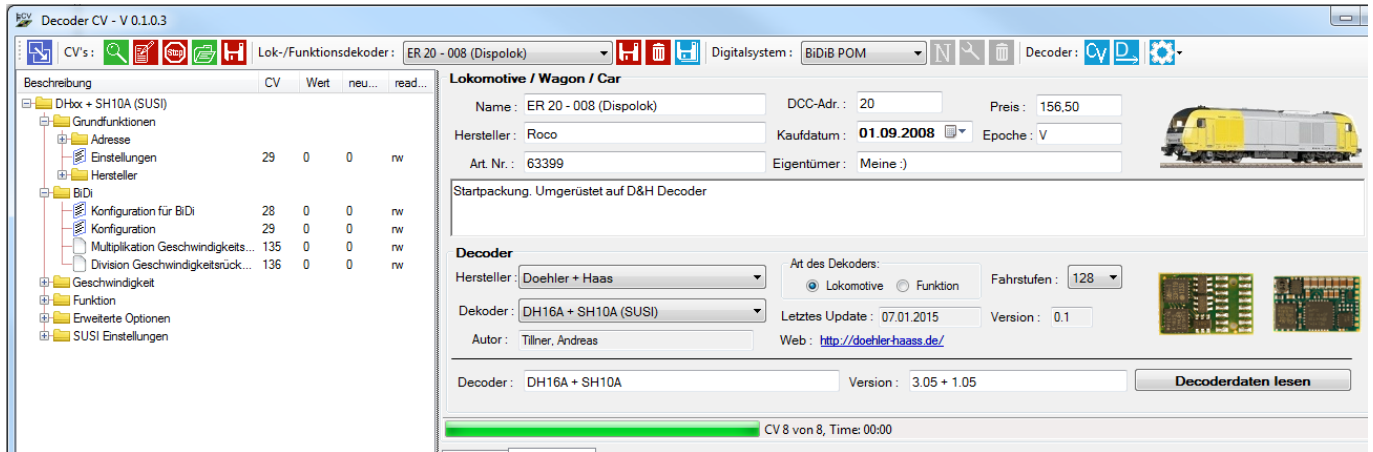
A single CV can be read/write without a CV-XML file.

ATTENTION: There is no check for Validation of the value.

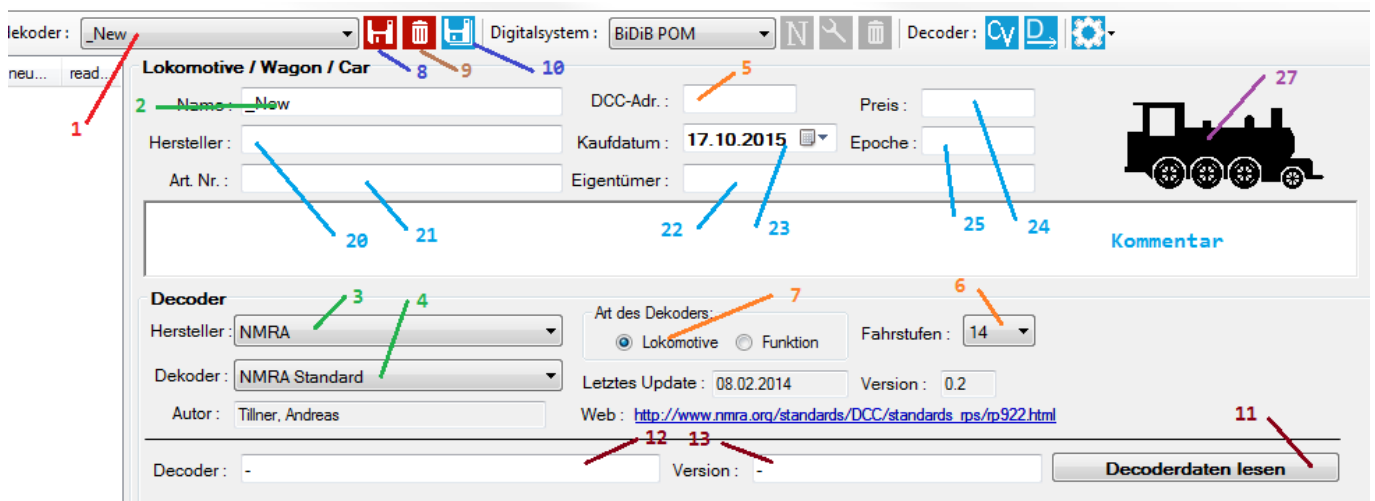
Locdecoder administration



You can start the Locdecoder administration by pressing „Alt-D“ or a mouse click on the CV-Icon (red frame).



Create a new Decoder



1. Select the Dummydecoder „_New“ in the ComboBox (1).
2. Give the decoder an unique name (2).
3. Select the manufacturer of the Decoder (3).
4. Select the modell of the decoder (4).
5. Write the Decoder-Addr. into field „DCC-Adr.“ (5). This is only possible, if the Digitalsystem „BiDiB POM“ is selected.
6. Select the Speedsteps of the Decoder (6).
7. Select the type of Decoder (7).
8. A doubleclick on the Loco-Symbol (27), open a file-dialog. You can choose an image of the Loco. The size of the image should be 200×80 Pixel.
9. In 20, 21, 22, 24, 25 and the „Comment“-Field, you can write any text.
10. Select the buying date at (23).
11. Click on the Icon (8) to save the decoder.

Change a Decoder

1. Select the decoder, you want to chnage (1).

- 2. Change the data in 2 - 27.
- 3. Click on the Icon (8) to save the changes.

Delete a Decoder

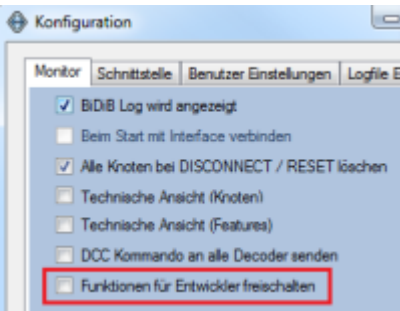
- 1. Select the decoder, you want to delete (1).
- 2. Click on the Wastbasket-Icon (9) to delete the decoder.

Export a list of Decoders

A click on the blue diskette-icon (10), generate a list of all decoders as a CSV-File.

	A	B	C	D	E	F	G	H
1	Name	Decoder	Adr.	Fahrstufen	Type	Model	Firmware	Hersteller
2	110 126-0	NMRA Standard	9	14	Lokomotive	STANDARD + (93)	4	Lenz Elektronik GmbH
3	110 188-0 (MX643)	MX640-648	110	128	Lokomotive			
4	211 082-3	LD-G-3x-Plus	11	128	Lokomotive			
5	BR 042 050	DHxx	32	128	Lokomotive			
6	BR 41	LD-G-3x-Plus	41	128	Lokomotive			
7	ER 20 - 008 (Dispolok)	DHxx + SH10A (SUSI)	20	128	Lokomotive	DH16A + SH10A	3.05 + 1.05	Doehler & Haas
8	SuperCAR	OCS-CarDecoderV3	3	14	Lokomotive			
9	SwitchPilot (Test)	SwitchPilot 1.0 / 2.0	3	14	Funktion			
10	SwitchPilot WA 13-16	SwitchPilot Servo 1.0 / 2.0	3	14	Funktion			
11	V 160 061	LokSound 4.0	61	128	Lokomotive			
12	V 211 200-1 (MX631)	MX618-634	10	128	Lokomotive	MX630-P25K22 (218)	31.14	Zimo Elektronik
13	V 212 108-5 (LoPi 4)	LokPilot V4.0	15	28	Lokomotive	LokPilot V4.0 DCC (02000042)	04.11.9184	Electronic Solutions Ulm GmbH & Co KG
14	V 216 009-1 (T4T)	DHxx + SH10A (SUSI)	8	128	Lokomotive	LD-1M (2)	17/0/2	T4T - Technology for Trains GmbH
15	V 280 003-5 (ESU Sound)	LokSound 4.0	1080	128	Lokomotive			
16	V212-303	DHxx	303	28	Lokomotive			
17								

Optional funktiones for test and development



This functions can be enabled by click on the marked checkbox.

Output of all POM-Messages

In the Tab „POM-Log“, all in- and outgoing POM-Messages are shaown as a list.

Logging	Liste der Booster	Event Log	POM-Log							
[20141014144947011]	OUT	: Addr	10, CV	163, Value	0, 0x00,	0b00000000,	OPCODE : BIDIB_CS_POM_RD_BYTE			
[20141014144947011]	OUT	: Addr	10, CV	164, Value	0, 0x00,	0b00000000,	OPCODE : BIDIB_CS_POM_RD_BYTE			
[20141014144947012]	OUT	: Addr	10, CV	165, Value	0, 0x00,	0b00000000,	OPCODE : BIDIB_CS_POM_RD_BYTE			
[20141014144947101]	IN	: Addr	10, CV	162, Value	49, 0x31,	0b00110001				
[20141014144947138]	IN	: Addr	10, CV	163, Value	205, 0xCD,	0b11001101				
[20141014144947176]	IN	: Addr	10, CV	164, Value	127, 0x7F,	0b01111111				
[20141014144947219]	OUT	: Addr	10, CV	181, Value	0, 0x00,	0b00000000,	OPCODE : BIDIB_CS_POM_RD_BYTE			
[20141014144947251]	IN	: Addr	10, CV	165, Value	10, 0x0A,	0b00001010				
[20141014144947336]	IN	: Addr	10, CV	181, Value	0, 0x00,	0b00000000				
[20141014144956825]	OUT	: Addr	10, CV	161, Value	0, 0x00,	0b00000000,	OPCODE : BIDIB_CS_POM_RD_BYTE			
[20141014144956914]	IN	: Addr	10, CV	161, Value	0, 0x00,	0b00000000				
[20141014145010449]	OUT	: Addr	10, CV	162, Value	20, 0x14,	0b00010100,	OPCODE : BIDIB_CS_POM_WR_BYTE			
[20141014145010477]	OUT	: Addr	10, CV	162, Value	0, 0x00,	0b00000000,	OPCODE : BIDIB_CS_POM_RD_BYTE			
[20141014145010581]	IN	: Addr	10, CV	162, Value	20, 0x14,	0b00010100				

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