

02/20/2022

[v] 5.9.77.1147

[!] Updated MMC-Wireless firmware versions (HW-2 v53.bin, HW-3 v03.bin)

[!] Fixed error displaying the registration window in the MMC-Wireless adapter network

[!] The algorithm for updating the MMC-Wireless firmware version from the MMC-Reader scanner has been simplified

12/26/2021

[! db] Fixed error with displaying transmission fluid temperature on some types of boxes according to the old protocol

10/30/2021

[v] 5.9.76.1142

[!] fixes in the program

[!] MMC-Wireless - fixes in firmware:

hw2 v51.bin - for adapters based on STM32

hw3 v01.bin - for adapters based on MCP2515

09/16/2021

[!] MMC-Wireless. Fatal error, highly recommended for update. Fixed request for pending error codes on ISO 9141-2 protocol

[!] Fixed error loading image files for MMC SCI protocols

[!] MMC-Wireless. Fixed info message for detected adapter

[!] Disabled SWS group. (Can be enabled via: Options-> Miscellaneous-> Technical settings)

[!] MMC-Wireless: MMC SCI systems are disabled in the main window. The air conditioning system is automatically excluded from the selection, as it offers only one MMC SCI protocol

08/28/2021

[v] 5.9.74.1129

[+] Added support for MMC wireless adapters based on the new CAN controller MCP2515

Two folders v2, v3 appeared in the Firmware directory in the folder:

v2 current firmware for MMC wireless based on STM32 (Hardware 2.1)

v3 current firmware for MMC wireless based on MCP2515 (Hardware 3.1) - in this adapter, AT compatible commands of the ELM327 adapter have been completely abandoned

[+] Added a step-by-step guide for firmware update. Note: if during the reprogramming process the version of the file v2, v3 is accidentally confused, this will not lead to a device breakdown.

The main thing is to calmly wait for the firmware to complete and then perform the update procedure again

[!] In the module for checking the adapter K-Line, version 3, amendment: execution of tests

06/08/2021

[v] 5.9.73.1126

[+] Unloading data from a session during work without stopping the process. Export files will still be saved in structured storage and copied to a single [Log] folder in the program's working directory. The file name will be assigned automatically: system_name_year_month_day-hours_minutes.channels

06/07/2021

[+] Added the ability to unload / load a preset of selected parameters. Works in relation to the selected ECU ID. Import / access from the main and context menus in the parameters section. Preset files are saved in the [Presets] directory of the program working directory.

05/25/2021

[v] 5.8.72.1124

[!] Critical fix. MMC-Wireless - incoming data, like the ECU ID, is converted to upper case (since the 39th version of the MMC-Wireless firmware, upper case is not used). The error appeared with control units giving the ECU ID in lowercase characters

05/12/2021

[+] Added an item to the main menu of the Windows operating system to update the MMC-Wireless adapter software: MMC-Reader / Firmware (MMC-Reader / Firmware update)

05/07/2021

[v] 5.8.71.1121

[!] Updated firmware WROOM v40-735.bin. Recommended for an update!

Changes were made to her code:

- Native 5-baud initialization - the port operates directly at 5 baud.

- Rewritten the code snippet that processes the input data. Instability manifested

itself in the processing of long packets >> 130 bytes. The input buffer has been increased, the fast action of the code has been fundamentally improved
- Added hardware filtering of characters in the range 0x00..0x7E. (To suppress sporadic controller noise (characters with 7-bit set))
- Other optimizations

05/05/2021

[!] Fixed: when the USB connection in the MMC K-Line adapter v2,3 is broken, there was a cyclic error in accessing the COM port.
The situation is resolved as follows: the COM port is closed, the adapter error message is displayed once.
To continue working, it is recommended:
1. Reconnect the adapter
2. Restart the scanner or manually search for the adapter

04/07/2021

[v] 5.8.70.1114
[+] Implemented the ability to work in a super-compact interface mode with a screen resolution of 1024 * 600 pixels (for netbooks)

03/29/2021

[v] 5.7.69.1111
[+] MMC-Wireless: Fixed a critical error in the data exchange driver for MMC-Wireless - loss of communication in the absence of error codes for ECUs with ISO support. The reason - there was no task setting in the driver.

03/25/2021

[v] 5.7.68.1109
[+] MMC-Wireless: Improved connection quality check
[+] Firmware update for MMC wireless - 33.733
[+] Requirement of the minimum firmware version for the adapter 33.733
[!] Adding line feed support in messages \ n

24.03.2021

[v] 5.7.67.1108
[!] MMC-Wireless: Critical improving for firmware 33.733
[!] MMC-Wireless: fix init for AYC

01/10/2021

[db!] The name of the parameter "7A TARGET PE" (KPa dimension) was left in the original language due to the complexity of the translation. According to the official translation, these are: Brake average operating pressure obtained under load, that is, the pressure difference in the cylinder under load and at idle ($P_e = P_H - P_{XX}$)

12/13/2020

[v] 5.7.66.1101
[!] Fixed message about the need to update the firmware

12/09/2020

[v] 5.7.66.1100
[!] MMC wireless - updated firmware WROOM v28-721.bin
[!] MMC wireless: Fixed a reminder to update
[!] MMC wireless: hardware Tester Present is activated
[!] MMC wireless: The adapter independently determines the connection speed "on the fly"

12/05/2020

[!] Fixed creation of reports in Adobe Acrobat Reader: layout without text was unloaded

12/01/2020

[v] 5.7.65.1095
[+] when MMC wireless is detected, the version of its firmware is checked, and if it is outdated, a recommendation is issued on the need to update it. The firmware file is located in the firmware folder
[+] Added initial support for MMC wireless 27-720 version commands

10/14/2020

[v] 5.7.64.1091
[+] Fixed layout of help in Adobe Acrobat format, added sections on MMC wireless adapter
[+] when the MMC-Wireless adapter is detected, a window with the hardware version and WiFi signal quality level is displayed

In addition, the signal level can be viewed in the settings section: File - Options - wireless adapter
[! db] Some test names have been translated

09.10.2020

[v] 5.7.63.1086

[!] Processing of single loss of responses via the wireless communication channel of the MMC wireless adapter has been performed
Skipping three answers in a row will lead to disconnection

10/04/2020

[v] 5.7.63.1079

[-] The mode of manual selection of the connection speed has been removed
[+] Added automatic bitrate selection mode
[!] Fixed switching to a different bitrate for MMC wireless
[+] A button for viewing events has been added to the main scanner window. It is in the "System" group
[!] Fixed algorithm for working through the universal ISO / OEM button
[+] Added additional information to the session start progress window
[!] Fixed a bug in the command pipeline for MMC wireless
[!] The utility for checking the quality of communication MMC wireless has been changed

09/26/2020

[v] 5.7.62.1073

[+ db] Database updated. Added TCL system identifier
[!] Fixed bug with DTC reset via wireless adapter
[+] Added the function of monitoring work in the MMC wireless network (auto-informing on loss / connection)
[+] Added utility for checking communication for MMC-wireless. It can be found in the parameters, MMC-wireless group
[!] when MMC wireless is detected, settings for MMC K-Kline adapters, OpenPort become unavailable
[!] Added the function of checking the connected MMC K-Line adapter before opening the port

09/14/2020

[!] Fixed a bug with opening a port without an active wired adapter
[+] Added automatic control of the transition / loss of the network of the wireless adapter MMC wireless

08/24/2020

[v] 5.6.61.1067

[+] MMC-Reader can be launched regardless of whether or not the driver is installed on the MMC K-Line adapter ver. 1,2,3. Previously, connecting the FT2xx.dll library was required without fail. With the addition of support for the MMC wireless, this requirement has been removed.
[+] The status bar of FTDI drivers appeared in the settings section: installed / not installed

[22.08.2020]

[+] Added Freeze Frame button in the DTC page

[06.08.2020]

[!] Made translation for all switching schemes for MMC K-Line adapters ver.1,2

[25.07.2020]

[!] The mechanism for determining the system capacity has been changed. Simplified and accelerated
[!] Corrections in reading error codes in the ISO-9141 protocol (Improved stability when displaying a large number of faults)
[!] Other fixes

[22.07.2020]

[!] Added old protocols support for MMC wireless(WIFI adapter). MMC wireless may reads any baudrates(down to zero). It is better than MMC K-Line adapters type 2a,3a(multiplex) (based on the FT232RL microcontroller)
MMC wireless continue a line of MMC K-Line adapters but with based WiFi technology.
[!] Technical settings: bugfixed speedrate for modes: MMC SCI, OEM, ISO - fixed. The set value will save.
Default value at 50.
[!] Program settings: Renamed adapters tab: "J2534 (Openport) adapter" to "Tactrix Openport 2.0". Because MMC-Reader has tested with Tactrix Openport 2.0 and X-Horce

MVCI. Operation with other J2534 adapters untested and not recommended

[07.06.2020]

[+] Added the ability to test third K-Line adapters

[06/05/2020]

[5.6.31.1036]

[!] Minor corrections in the code

[+] Added support for MMC wireless adapter

06/03/2020

[!] when error codes cannot be reset due to unresolved malfunctions, the scanner displays a corresponding message with the response of the control unit

02/19/2020

[!] Fixed switching of the screen mode full-screen / source by pressing a hot key (Ctrl + F by default)

[+] For tablets with the installed windows operating system, the function of automatically displaying the auxiliary exit button when moving the mouse to the lower right edge of the screen is added to the full-screen chart viewing menu

[+] An interceptor has been added to the control unit with key bytes 0x4E44 (outside the regulatory framework) for the 4G64GDI engine from Chariot.

11/25/2019

[v] 5.5.60.1029

[!] Updated installation instructions

11/10/2019

[!] Fixed search for third-party adapters. Not working on the FT232RL microcontroller

11/04/2019

[+] Diagnostics of the smart control unit SWS is displayed in the main window

[!] Bugfix: IMMO diagnostics was not active

[+] Added old protocol for adapters MMC K-Line isp.3 (with multiplexer) for ASC block

10/23/2019

[v] 5.5.59.1026

[!] Fixed check of the new version of the database

[!] New base 10.2019. Added AYC codes: 6100, 6101, 6102 Fixed AYC codes: 6200, 6201

[!] Completely translated into Russian AYC / ACD system

10/08/2019

[v] 5.5.58.1022

[!] There was an algorithm in the MMC-Reader scanner that could temporarily display minimal data sets for new identifiers.

In this release, market queries for the AYC system are removed and queries for minimal datasets for other systems are also disabled.

For the new identifier for the AYC system (and for other systems), the message will be displayed:

>> You found a new identifier: 6205

>> Please tell this number to the developers.

Then send it to us in any way: Mail, Viber, SMS

[+] An immobilizer system has been added to the main menu. This IMMO block, as before, is read-only.

[+] Additionally, the "Deprecated adapter" option was made in the installer to support old adapters (the file ftd2xx.dll version 2.10 is copied to the working folder)

09/04/2019

[v] 5.5.57.1017

[!] Corrections in the update module

08/30/2019

[v] 5.5.56.1007

[+] The installer automatically starts the setup instructions after the copying of files is completed

[!] Bugfixes for resetting ISO9141-2 / OEM codes

[!] Disabled ordinal record counter from the status bar, working only in chart mode

07/11/2019

[v] 5.5.55.1002

[!] Missing systems have been added in the new interface: 4WS, AYC, HBB, SS4

06/20/2019

[v] 5.5.54.992

[!] Fixed a bug: using MMC SCI protocol, the connection hint is now displayed in Russian

06/19/2019

[-] In the main window, little significant information has been removed from the statusbar: the position of the cursor in the parameters, etc.

[+] Help has been updated.

06/18/2019

[!] In the form of a diagnostic session (DS), three tabs are combined into one: project, block information, events

[!] Optimized freezeframe code

[+] Generalized information about the control unit has been added to the start page of the DS:

* Check Engine Indicator Status

* Number of error codes

* Number of parameters

* Number of tests

[+] For control units operating under two types of protocols: ISO / OEM in OEM mode, a reminder is displayed that working with error codes is possible only on the ISO exchange protocol.

[+] Switching between the old and the new type of interface has become possible from the main menu "File"

[+] A new progress indicator has been added in the new interface view, which makes it easier to count the time interval before the start of a new session.

[+] Added F2XX drivers for old MMC K-Line adapters sp 1.2 in the Drivers folder, driver version 2.10.00.

[!] SenseLock dongle drivers moved to: MMC-Reader \ Drivers \ SenseLock \

[+] For adapters of the old performance (1,2), the extended BitBang mode is not used

06/12/2019

[v] 5.5.53.981

[-] Unpacked drivers of version 2.12 (D2XX Drivers folder) removed from distribution

[+] Driver packages 2.06 added (for windows 2000); 2.08 (For windows XP); 2.12 (Windows 7,8,10) in the Drivers directory

[-] The ftd2xx.dll library has been removed from the working directory of the scanner. It did not play a big role and was needed, in fact, to be able to run the scanner without installed adapter drivers.

[!] Help updated

06/01/2019

[+] An alternative start screen has been added, its advantages are that you can start sessions with one click without navigating through sections.

The additional start screen is disabled by default and can be activated from the scanner settings: File-> Settings-> Other-> New user interface

05/28/2019

[+] Added the function of reading the frsiframe using the ISO-9141-2 protocol:

In the error codes section, a column of freeze frame is added to the table.

If it displays Present, then double-clicking on this error code will result in a pop-up window with the saved parameters.

[v] 5.5.52.962

[+] Added the ability to update the database from the site without updating the program itself.

[!] Bug fixes in the update module

03/23/2019

[+] Fixed adapter definition bug version 2

[+] Due to the fact that the MMC K-Line adapter version 3 is assembled using the original FT232RL microcontrollers, it was decided to transfer this series of adapters to work under the control of standard FTDI drivers. Translation instructions are available on the website, in the drivers section.

[!] Minor fixes

03/18/2019

[+] Added engine 0xE7A4

[!] Fixed error of saving the polling parameter in ISO mode in the configuration file

07.01.2019

[v] 5.5.51.961

[!] Optimized built-in adapter test. Diagnostics is divided into two separate tests: K-Line and MMC SCI. K-Line is carried out when the adapter is connected to the car, MMC SCI - when the adapter is disconnected from OBDII.

[!] For Pajero-3 engines, all possible options for displaying parameters have been added.

[!] Help updated

12/24/2018

[!] A fundamental error was finally found and fixed, which led to the need to recompile programs for Russian-speaking, Russian-speaking, etc. window assembly

[!] Settings Module: when an MMC K-Line adapter is detected, the autosearch button hides so as not to be misleading

[!] Settings module: Adapter testing module moved to other section

[!] Updated program help

12/17/2018

[v] 4.4.50.950

[+] Saving in the configuration file of inter-byte intervals for the modes: MMC SCI, MUT, ISO-9141

[!] Slightly increased the request interval for the MMC SCI, MUT protocols by default

13.12.2018

[v] 4.4.49.946

[!] In the settings, you no longer need to specify the port where the adapter is connected. When running, MMC-Reader automatically determines the adapter port via the driver API

[!] The adapter auto search button is needed only for third-party devices.

[-] Removed adapter verification procedure (K-Line, J2534), which could display incorrect messages when the scanner was first run

11.12.2018

[v] 4.4.48.940

[!!!] Important. Made critical changes to the driver data exchange. Improved stability. Parameters controlling the exchange rate are excluded from the scanner settings. They are no longer necessary.

[!] The version of the MMC-Reader scanner has been upgraded to 4.X.X.X.

[!] Auto search of the COM port has been abolished. The port number request is made via the FTDI library.

[!] Code revision in adapter test module

[!] In connection with the change in the MMC K-Line adapter isp.3, to test it, you need to connect to the vehicle's OBDII diagnostic connector. The ignition must be off. (Without connected power supply, only inverse channels can be tested using the old protocols)

11/26/2018

[+] The ftd2xx.dll library has been added to the program working folder.

18.11.2018

[v] Release 3.4.46.924

11/17/2018

[+] The operation of the tests on the air conditioner unit under the old protocol (MMC SCI) has been fixed.

[!] Fixed loss of communication check (MMC SCI)

[!] Fixed errors in the test commands in the database (MMC SCI)

[+] Added command to reset the FTDI microcontroller before each address change in the multiplex.

[!] The data exchange interval has been increased from 50 ms to 80 ms. If you want to speed up the exchange, change the value to less.

[!] During a running session, you cannot enter the parameters.

11/16/2018

[+] The ability to adjust the wake-up signal of control units has been added to the program settings.

[-] Disabled support for communication on MMC SCI protocols

[!] A small fix was made in the survey of error codes.

[+] A delay in identification requests was detected when working with some ABS units. The scanner has added wait time.

[!] Added a check that affects the stability of data exchange on the OEM protocol.

[!] Fixed auto adapter search

[!] Fixed address switching in the MMC K-Line adapter version 3

[+] Help has been updated.

10.26.2018

[v] Version 3.3.45.911

[!] Removed "advanced mode" checkbox from adapter settings

[!] The program is adapted to the new version of the MMC K-Line adapter version 3.1

10/02/2018

[v] Version 3.3.44.904 Ru,Ge

[!] Fixed errors when loading projects

09/12/2018

[v] Version 3.3.43.873 Ru,Ge

11/09/2018

[!] The mode of selecting the bitrate on the Pajero-4 ABS block has been tested.

08.09.2018

[-] Disable automatic detection of bit rates

[+] The program automatically turns on the manual mode for entering bit rates if the operating frequencies of the scanner and the control unit do not match.

As practice has shown, the determination of the connection speed by means of K-Line adapters is impossible: the control value of the difference of bitrates constantly "floats", so it was decided to use manual selection.

[!] Small fixes in messages

08/29/2018

[v] Version 3.2.42.866

[!] Help updated

[!] Improving the interface and minor fixes in the program settings, auto-search adapter

06/21/2018

[!] General correction of small errors

06/18/2018

[+] Self-diagnosis of the adapter. Suitable for all types of MMC K-Line adapters (version 1,2,3): without multiplexing and multiplexing.

[!] Added a quick check for the presence of a port at the beginning of the diagnostic session

05/26/2018

[!] Modification of the MMC K-Line adapter parameters module

03/29/2018

[+] We have developed a new adapter K-Line Muxer Device with automatic signal switching for all types of protocols.

This solution will allow not use manual switching and increase the productivity of labor and convenience in work.

11.01.2017

[!] Database updated

08/26/2017

[v] Version 3.0.40.747

[!] Fix bug in the module for check new version

[!] Fixed bugs when choose language

[!] Performance monitor can started with only under active session

[!] First sheet of project was activated hotkeys. That was hinder to writing text.

08/23/2017

[v] Version 3.0.40.743

[!] Logs manager has been improve

[-] Manual select to a baudrate is off now

[!] Performance monitor can start only with an active session.

08/21/2012

[V] Version 3.0.40.742

[+] Added parameters in percent: Target CSP and Actual CSP (4M41 engines)

[+] For experts. Extended debugging mode: Shift + F2

1. Including logging

2. User can to select the connection speed. This functionality is made for rare blocks (Braking system \ HBB), working on bitrates, calculated programmatically.

3. You can disable checking the key bytes. By default check is on. That is designed for unknown blocks (Brake system \\ HBB)
4. Show a log "Shift + F4". Users can to see data log between tester and vehicle.

07.05.2017

[v] Версия 3.0.39.737

[!] There is correct russian names of parameters for engine 4M4

[+] In the floating-point numbers you can change the fractional part width. To do this, two new items are added to the context menu: "accuracy more", "accuracy less"

02.11.2016

[+] There were added identifiers TCL

06.09.2016

[v] Version 3.0.38.735

[!] Added systems AYC. Thank you to user "Vanja_Vanja" for his datalog.

[!] Has been improved one moment in the code for system AYC.

05/01/2016

[V] Version 3.0.38.733

[!] Timer of record is now working on the tabs: graphics, large lettering, tabular view.

[!] Changed the status bar

[+] Memory-counter has added for graphics mode

[!] Text-display mode is now available for stop mode of session.

[!] Improved table presenting data in HEX-form

[+] Made an export to MS Excel format

[+] Made a tableview report

[+] Added runtime restrictions(active session) to save of reports of MS Excel format

[+] Directory of reports displayed on the status bar

[+] Pressing buttons reports: pdf, xls, rtf - showed tooltips with full names.

[+] Added a monitor graphics performance. Help - Performance Monitor. You can display graphs in time and see time of rendering. Lower scale should be shorter than the upper optimally. In any case, the graphics will work, because rendering is engaged separately, is responsible for this process.

[!] Optimized procedures to translate the interface

[!] Minor fixes

03/10/2016

[V] Build 3.0.37.716

[!] Since 01.01.2016 windows 7,8,10 required a digital signature SHA-256.

Therefore we added script to disable checking signatures. After install MMC-Reader you should be reboot your system and go to install driver of MMC K-Line adapter.

19/12/2015

[V] version 3.0.36.716

[!] New icon

[!] K-Line drivers has been signed SHA-1 method

[!] Sertificat(winInit) has been added for checking SHA-1 signing

12/11/2015

[V] Build 3.0.35.712

[!] Fixed a projects manager. Now the files are opened correctly.

[!] Few small bugs has been fixed.

[+] New a math engine!

[!] Changed ico of program

[!] Updated driver MMC K-Line (01/27/2014, version 2.10.00 (support windows 8.1 all editions)

[!] Update driver a hardlock key to version 3.1.0.0 (support windows 8.1 all editions)

09/05/2014

[V] Build 3.0.34.696

[!] Bit functions has been fixed

04/22/2014

[V] Build 3.0.34.694 beta

[!] Graphic engine has been partially optimized

04/11/2014

[+] Now program supported multibyte responses [for example ECUID:F25E]

[!] Calculation module for MUT-data has been updated

[!] Advanced data handler for MUT protocol has been released

03/27/2014

[V] Build 3.0.33.678 final

[-] Disable screensavers

[!] History version displayed once at first launch of MMC-Reader

[!] Updated driver of MMC K-Line

07/03/2014

[V] Build 3.0.33.676 final

[!] If a system separator = "." then raise an error "Unknown identifier: xx, xx". Fixed.

02/24/2014

[+] Updated database identifiers.

28/11/2013

[V] Build 3.0.32.669 final

[!] Fixed imp/exp sessions for ISO-9141-2.

[-] Support PL2303 has been removed as useless.

[!] Update driver of adapter MMC K-Line

[+] Projects manager can view files "*.channels", and via external programs RTF and XLS files.

[!] Project manager now is working properly with file extensions

25/11/2013

[V] Build 3.0.31.660

[!] Fixed print reports in MS Excel. The highest rate of reporting is achieved by running a Windows XP, in later versions of Windows, the delay in the formation of MS Excel report can disrupt connections, to prevent access to the main menu of the diagnostic session in case of an error, uncheck the options "exit to the main menu when an error in the session. "

[!] Fixed tests in working through J2534 adapter.

[+] Starting the program will be accompanied by a request to increase the level privilege, if it occurs on a computer with enabled UAC.

Previously it was assumed that the program runs on a computer without the UAC (for without UAC), a UAC off or set a tick in the shortcut properties, "Run this program as administrator".

Otherwise, there is an error when you run Access.

P.S. Accidentally discovered that the Auto-update program displays (download from website) version history in UTF-8, which led to the conclusion "gibberish", fixed in ANSI-1251 encoding. The rest of the auto check operating normally.

08/11/2013

[V] version 3.0.30.651

[!] Fixed tests under ISO-9141.

05/11/2013

[!] To correct diagnostic procedure for cancellation of the session.

03/11/2013

[-] Removed the restriction on minimum height of channel charts.

24/10/2013

[-] Off flitting pop-up message when moving to read error codes tab. It remains from earlier versions.

[+] In the context settings menu item added: "Mark / Unmark"

[!] In graphic mode:

* Fixed mark a large number of options in graphics mode when the option "do not take into account the minimum height of the canal"

* Added a button to the toolbar: Switch to full screen mode

* Added item in the contextual menu: full screen mode

* The full menu is connected context menu

23/10/2013

[!] Creating a diagnostic session is only possible after the opening of the project: The main menu "File"> "New Project".

Within one project udoobno ??save session files, make print responses, which will be given details relating to it: car name, year, owner contact information.

[!] Information on the project and the diagnosed unit spaced on separate tabs.

[!] Data display button in a table moved to the right of the graphics mode selection

button.

09/29/2013

[V] 3.0.29.621b version

[+] Added a built-in debugger to send the clipboard.

Features. Before use the debugger including supporting high-precision timer: Shift + F2
And if some of the units can not be a connection, at any time, you can press Shift + F4
to send us from the clipboard to clarify the situation. You can upload directly in the
forum, the information provided in the form of shestdatsaterichnom.

Looks like:

BUFFER

070000000001010700000000010104000000000101060000000001010400000000010106000000000101050

09/27/2013

[V] 3.0.29.616b version

[!] Added a separate button to enter the engine block protocol "Check Mode".
Previously, it has been hidden due to the introduction of automatic script that
determines the supported protocols.

At the same time, the former left to automatically determine the supported protocols.

[!] Database structure optimizirovna completely rewritten code reading, searching.

Optimized to work with text encoding.

[!] Conversion bitrates table has been turned off in the latest test builds. Corrected.

09/22/2013

[V] 3.0.28.604b version

09/20/2013

[+] Added a technical information on fault codes, parameters, tests. Those. using the
context menu (error codes tab settings) you can enable window display help information.

[+] Made processing connection with the blocks that do not support the connection for
the ISO-9141-2, and meet the support package, indicating a transition to a different
bitrate.

[!] Fixed Display of fault codes. When you restart the session previously read fault
codes are not displayed.

08/15/2013

[!] Rewrote predinitsializatsiya MUT, ISO protocols.

08/06/2013

[!] Fixed a bug in the display (up to 80%) of the progress bar during the test. Reason:
incorrect behavior when the windows Aero-style.

08/06/2013

[!] Fixed a bug in the programming keys.

[!] Improved communications system interface.

08/05/2013

[+] The minutes of the ISO-9141 Added preliminary reading (PENDING) error codes, they
are displayed in a single window with final error code (MATURE). Error type indicated.
The preliminary error codes only work for Mitsubishi.

31.07.2013

[V] 3.0.26.558b version

07/29/2013

[!] Optimized error output on the ISO-9141 (previously allocated cursor line in the
list of error codes was impossible because of the constantly updated list)

07/27/2013

[!] The mechanism initsalizatsii ISO protocol is partially revised in favor of the
early implementations.

[+] Activated previously disabled non-return processing functions response to requests
"Part Number", "Rom ID". (The new version of the database, each block of code clearly
described to the possibility of the survey on these parameters, but nevertheless for
reinsurance newly activated)

[+] Added the function of switching of modes: "Standard sensitivity", "hypersensitivity"

[!] Reading and reset error codes via the J2534 adapter (OpenPort) - fixed.

[!] Key programming function is connected - it was accidentally deleted handler.

07/24/2013

[V] Version 3.0.26.549

[!] Detected and corrected the error when entering the unit, potentially resulting in a loss of connection blocks that support the ISO-9141 protocol. (Compound Ie was observed loss in the engine inlet).

07/23/2013

[V] Version 3.0.26.540

[!] Detected and corrected the error when you run a diagnostic session to the motor (with support for ISO protocol).

[!] To do the translation error codes into Russian

[!] Fixed bug switch between tabs in the presence of Freeze Frame code.

07/06/2013

[V] The final release of 3.0.25.532. It is recommended to upgrade.

[!] Fixed various bugs in the interface and the program itself.

01.07.2013

[V] Output beta 3.0.24.521b

[I] Highlights: graphic adaptation of the 64-bit systems, J2534 connection adapters (Openport) freight cars.

[+] Pre-updated information.

05.06.2013

[+] Faster checking of COM-port before the start of the diagnostic session.

06/04/2013

[+] Made displaying graphs on 64-bit systems.

For information

For information layers in the construction schedules GDI uses the same graphical interface.

Overlay mode takes place in the chromakeying by the level of black.

The only difference is the 64-bit rendering function to display graphics mode with 32-bit will be otstutstvie translucent background (fog) on ??the unpainted area.

05/30/2013

[+] The installation program now offers a package installation in 2 languages: Russian, English. This means that after once installed, it is not necessary to reselect the interface language. However, the transfer can always change parameters, this function works as before.

[+] Fixed a bug in the installer to work with the registry on 64-bit simstemah.

08/05/2013

[-] Program Parameters: Removed keyboard shortcuts to switch between tabs: Error reading the parameters, graphs. There is no need, I think.

[+] Added ability to select the buttons and sizes.

03/28/2013

[+] Changed the mechanism works on the ISO-9141 protocol: Previously, when you click on Read / Reset occurred one-time connection to the unit, and the information off.

From that moment the scanner establishes a connection at the beginning of ISO sesiii as for Check Mode protocol, communicates. Commands are given as required block.

[+] ISO: Added ability to read parameters

[+] ISO: tests are also available for execution.

* Sharing the ISO is slow, it should be taken into account.

03/14/2013

[!] Changed communications support for the old protocol.

[!] Updated database.

[+] Made window storage location the next time.

[+] If you find an unknown response from the unit, the program offers to send the protocol developers. We strongly ask you not to ignore this request, so give us information on new blocks.

19.10.2012

[V] 2.0.22.444

18.10.2012

[+] Added SRS-beta (KWP-fast-init) button to record the responses from the control unit, if the SRS is working on this protocol.

Similarly behaves conditioner button - if you go on the block response, the program will offer to send a report.

[+] Improved column scaling logic in the "Options" ("DataStream").

The width of the columns is defined as:

"Type" - auto-detect the width of the contents

"Value" - a given percentage of the screen width

"Title" - to fill the remaining part of the display screen

[!] Fixed error priizmenenii window size.

[!] Can not overwrite option from the bottom of the list for "DataStream" tab.

[!] Improved printing error codes frizfreymom.

[!] Filtered output of zero-forcing codes DTCs.

[+] Error reset command identifiers attached to the blocks. Previously used a unified procedure for clearing error codes.

[!] Under the old protocol information window built into the tab, which is more convenient in terms of graphics display circuit connections.

[+] On the "DataStream" option is added to the default font size in the context menu.

[+] Added the project attributes: Name customer, telephone, address, year car mileage. Save the diagnostic session also stores the project data.

27.09.2012

[+] Selecting processed blocks.

[+] Added a toolbar, which contains the button:

1. "Event Log"

2. "Project Explorer"

3. "sessions download button"

4. "Return to the previous session "

10.08.2012

[+] Double click on the status bar in the Project Manager, open the settings window.

[+] Project Manager supports a built-in preview screenshots in jpg format. And if your computer has Adobe Acrobat Reader version 8,9,10, it will be possible to view files pdf. For MS Excel formats, MS Word preview performed in external programs by double-clicking.

31.07.2012

[+] Project Manager submitted in a separate tab.

[+] Added a 4th-level submenus. Now when you select the block connection does not start automatically, and is offered in addition a choice:

1. Return to main menu

2. Start the connection

3. Loading the diagnostic session

4. Run the Project Explorer

27.07.2012

[+] Restored read ROM ID, PART NUMBER. Handle the situation with neotveotom the request IDs.

19.07.2012

[V] 2.0.21.418

[!] Peg "Present" in the Freeze Frame read mode appears necessary. Made scaling columns in DTCs mode.

16.07.2012

[+] Added requests for Freeze Frame variable speed boxes.

[+] Management of L-Line displayed in the settings.

[+] Reduced to a single name and the names of the parameters of the tests in boxes and abs.

[!] For the blocks that do not support the ISO protocol, disable certain batch number.

[!] Made the treatment of choice in the empty Project Manager. Thanks Ivan Horovodovu.

[+] Hot Keys (BackSpace, Space) in the Project Manager tab is no longer active, have not previously had the opportunity to edit the project name.

[+] Added option in the context menu of the project manager, "project deletion", "Rename the project".

[+] Optimized protection of the executable file. High-speed procedure displayed on a lightweight mode. It should be noticeable on slower machines. The load on the CPU should be significantly reduced.

[+] Thank you for the idea Vyacheslav Kolomiets with the project manager and tips for program improvement.

[I] The first export to MS Excel format will almost always lead to a rupture of communication in connection with the preparation of resources. subsequent attempts to export to MS Excel format are already normally.

12.07.2012

[V] 2.0.20.399 Beta

[!] Logging events started a separate thread. Previously, this could have a negative influence on the connections on low-end machines.

[!] Added a beta option: Not logged - log off

[!] Attention! Use overclocking options, unless already obtained a stable connection to this unit at the standard speed. Excessive high exchange rates may worsen the entrance to some blocks and affect the stability of the compound.

10.07.2012

[V] 2.0.20.392

07.07.2012

[!] Finally, an error is found, leading to the inability to connect to the bloc to ISO management protocol. Wrong constant has been set.

[!] Tested Reading Freeze Frame on the gearbox and / m Cedia. Working. In the near future will be added Freeze Frame survey codes for transmission CVT type. While IDs reading Freeze Frame few dozen.

25.06.2012

[+] The tabular representation (Data Stream) can have a custom number of columns. (The default value is 2).

22.06.2012

[+] MMC-Reader can create projects.

[+] On the information tab of the Project Explorer displayed block.

[+] Added functions to save the contents of the background of rapid tabs formats: Adobe PDF, MS Word, MS Excel.

21.06.2012

[!] Does not work determine the maximum number of graphs. Corrected.

[!] In order to reduce the height of the graphs, use the setting in the parameters. Corrected.

[!] Tab settings (Data Stream) is displayed as a table. Increased O performance. Thank you Michael for Dugin indicated the problem of low frequency survey in the parameter list.

[+] Added option to improve data transfer rate in the parameters. Added section in Help.

[!] After sorting parameters, number of channels on the chart are displayed incorrectly.

[+] Added option avtopozitsionirovaniya current readings on the charts. At low altitude, the channel values are aligned to the right side.

[+] From uninstaller removed the function of the complete removal of the directory: [Reports], [Drivers], [Language] as it was stored data loss precedent of the above directories.

05.06.2012

[V] 2.0.19.363

[!] we are grateful to vyacheslav kolomiets for sending bug reports. Sergey Trifonov for useful advice and comments on the work program.

01.06.2012

[!] The test mode is added to the block connection protocol (ISO) KWP FastInit for airbags and air conditioning systems. If you happen link on this protocol, please kindly send us the protocol. (The program itself will generate a letter and only prompt you to send it). It will contain an answer to the request of the program block.

[+] Added new identifiers (At the moment, there are about 1900)

[!] Fixed an error in the database.

[!] The ISO-9141 increased the timeout control byte response. There have been cases of disconnection.

26.05.2012

[!] Fixed error when viewing the beginning of a saved session. (Black screen)

[!] Removing krinshota in playback mode loaded diagnostic session is causing the error due to the fact that at the same time soveshalas attempt to record a snapshot of the parameter list. (But it is hidden and has not been initialized)

[!] Error occurs when loading an empty diagnostic session. Added check for the presence of channels.

24.05.2012

[V] The distribution 2.0.18.354

[!] Fixed artifacts in the graphs resulting from the sorting of the list of parameters diagnostic session.

[!] Updated information.

22.05.2012

[V] The distribution 2.0.18.350

20.05.2012

[!] Fixed errors in the data blocks on the SRS.

[!] Added account settings connection with the unit: the key bytes, IDs, log actions.

15.05.2012

[+] Added sorting by data type in the parameter list. The call is carried through the context menu.

[+] If the connection can not be established because of the noise in the line, adds the ability to view the input buffer in hex form.

[!] The input algorithm into blocks. In this regard, two buttons: "Engine ISO" and "MPI / GDI / DIESEL" combined into one "Engine KL-LINE".

The bottom line is that the program will attempt to connect to the unit in accordance with ISO protocol, and if the protocol will be supported by a control unit, message will appear on the choice of connection protocol. Otherwise, the program will automatically switch to the communication protocol for MUT.

[!] Redesigned interface. Identifiers block on a separate tab, which will start a diagnostic session. As she passed the log of actions.

[+] Added the identifiers in the database (Version: 05.2012).

17.04.2012

[V] 2.0.17.328

[!] Fixed the error of reading interface for ISO. read buttons, error reset automatically after the call error reading procedure becomes inactive. Corrected.

04.04.2012

[+] Extended table with auto-detection rates for the basic bit rate:

15625: 19200; 14706; 13889; 13185; 12500; 11905; 10870; 10400; 10000; 9800; 9600; 4800; 2400

10400: 19200; 15625; 14706; 13889; 13185; 12500; 11905; 9800; 9600; 4800; 2400

[+] The protocol made a real display of the speed of your unit.

[!] Detected and corrected an error in the code determining the real bitrate. Added informational message about the automatic change of the bit rate.

21.02.2012

[V] The release version 2.0.16.318

18.02.2012

[+] The program installer package included a driver on the adapter MMC KL-Line + 1G.

A folder with the driver located in the subdirectory: \ D2XX Drivers. a shortcut to the folder from the Start menu is also made.

17.02.2012

[!] Updated help file.

[+] The reports added characteristics: ID ROM, PART NUMBER

[!] Achieved division reports on linguistic grounds. You can now create reports for additional languages, placing them in the directory: Reports.

15.02.2012

[+] New driver package SensLock 2.51.1.1 included in the distribution kit

[!] In connection with the renovation of the driver package in the installer added function remove the previous version. (It remains the configuration file and all user data in the folder with the program)

14.02.2012

[+] Added new multibyte Tests ABS units.

[+] Added Freeze Frame Parameter reading function individually for each error code. Also provided a report to output the print data.

[+] Added a progress bar to read error codes tab order because Freeze Frame settings Reading takes a very long time, and the status light will help you understand the condition of the work.

[!] Spend some optimization of the program code. Slightly redesigned interface of the main window.

12.01.2012

[!] Added cancel button test.

[!] Removed the check for the completion of the background process when you exit the program. Earlier, it displays a message on the need to wait a little longer.

17.12.2011

[V] 2.0.15.294

[!] Check the availability and compatibility of the COM port at the start of the program is removed and transferred at the time of the selection block.

Found and fixed a nasty bug in the module "OpenPort", which is when you run the program will produce an error message [!]: "Range check error".

Reason: neproinitsializirovannaya variable.

The error was discovered by accident:

when you run the program in an environment without the installed drivers "OpenPort" (Note. On all computers the developers of these drivers, unfortunately, were present, which led to the overview of the error)

Drivers on OpenPort not needed, since the development branch "OpenPort" is frozen.

-
From version to version of the program changes its code gets a new one. Naturally, any code contains errors that developers can not always detect and correct.

If you encounter errors, do not hesitate - write on the forum or send a letter to the approximate description of the situation.

10.12.2011

[V] 2.0.14.290

[+] The reference section is included MMC-Reader Adapter (KL-Line + 1G)

[!] Updated topics in Help.

06.11.2011

[+] Added a virtual function "Relative fuel consumption." It is a derivative function of two parameters: rotational speed and the fuel injection duration. For more detailed Help.

[+] Added the ROM reading an identifier for the engine, transmission.

[!] Optimized some functions and procedures.

26.11.2011

[V] 2.0.13.203

[!] Fixed display of maximum / minimum in the charts.

[+] Added new keys in the alarm recording algorithm

21.11.2011

[!] Fixed downloading files of the previous version (2.0.12.199).

12.11.2011

[V] 2.0.12.199

[+] Added IDs

[!] Fixed reset stored fault codes

[!] Fixed errors in transmission tests

[+] Added option in a test mode for the engine Knock sensor * (Volt)

[!] Changed the initialization blocks. Added information messages on the status of a connection.

[+] Graphic tips for switching terminals are added to the old 1G protocol. Context at a connection of the corresponding block.

[!] File error codes OBD2 for "on-board.xml" is now included in the common database: mmcbase.dat

[!] Increased the size of the buttons on the main menu.

[+] Added new blocks for diagnostics: TCL, TPMS, ASC, CRUISE, ECS, IMMO, IMMOBI & Keyless, IMMOBI & KOS, KOS / IMMO / Keyless, Keyless operation, Camera

[!] The choice of modules is now done in a hierarchical manner:

1 - level - the choice of categories: Engine, Transaxle, Chassis, Body, Information and Communication

2 - level - the choice of subsystems

3 - level - the choice of the control unit for diagnosis. More details will be described in reference to the program.

[-] The parameters cleaned binding hotkeys to buttons "level up", "K-Line", "1G" because the buttons phased out.

07.10.2011

[!] Improved work with the driver on TechStream

[+] Fixed errors in loading schedules.

04.10.2011

[V] 1.0.11.177

[!] Fixed the opening of diagnostic sessions: From the main menu: "File" >> "Upload channels"

Removed from the distribution library loader "Loader4.dll" (work on the protocol J2534-1 REV.2004) [!] - Its functionality included in the program

[+] From the set of distribution removed the configuration file: mmc.cfg. polzovtelya settings when upgrading is no longer dumped.
[I] continues to support the development of the project OpenPort (Tactrix, .. etc). It is expected that the option "OpenPort 2.0 Tool" will open in about a month.

29.09.2009

[V] 1.0.10.163

[!] Fixed some text messages.

[+] Added a check to start a second copy of the program.

28.09.2011

[V] 1.0.10.160 Build new compiler

27.09.2011

[+] Scrolling charts now works with the background color set in the settings. Earlier, the color of the background when scrolling switched to black.

[+] By pressing "Space" in full screen mode includes a debug procedure. Corrected.

[+] Test menu extends automatically when naverdenii cursor button.

20.09.2011

[+] The configuration program adds the ability to control lines DTR, RTS. By default, check boxes are turned on.

[+] To change tactics to work with COM-port. Previously, each diagnostic session was followed by the opening of the port at the beginning of the session, and closed at the end. Now closing occurs only if you want to change the baud rate with the unit. This decision was taken to exclude bursts on the lines DTR RTS.

[+] Added a function to save screenshots during operation. In the settings you added the path to the directory placement of the screen shots. Written information.

26.08.2011

[!] Added a message about an unsupported code block in the event that some limited compatibility can not be used.

[+] Added diagnostics air-conditioning system.

14.08.2011

[V] The release distribution 1.0.7.118

Fixed errors in the charts with [!]: Zoom or out of synch.

[!] when zagruzke saved session is not taken into account the scale of the saved when scrolling graphs. Corrected.

09.08.2011

[V] The release distribution 1.0.7.115

02.08.2011

[!] Reworked graphics channel display driver. Initialization paintings displayed in a separate process.

[!] Improved scrolling, namely stopping time after dragging the mouse does not lead to a defect display.

[!] For double-byte tests removed the window with the progress.

30.07.2011

[V] 1.0.7.114

[!] After removing the pause, erased the line of control values ??(if it was marked earlier).

[!] Fixed some bugs that affect the stability of the program.

29.07.2011

[V] 1.0.7.110

Fixed scrolling to the right [!] - I do not perform a visual scrolling when dragging canvases schedules.

[!] Fixed the floating error when obrabtake Form.Resize events at the close of the main program window.

26.07.2011

[V] 1.0.6.108

[!] Changed the status bar information

[!] Fixed minor bugs

22.07.2011

[V] 1.0.6.105

[+] Added function to check for updates on the site. There are manual and automatic

modes.

14.07.2011

[V] 1.0.6.103

[+] For work on non-standard speeds for adapters based on PL2303, previously, the program supplied registry file: "add_baud_rate.reg", which was proposed to import during the installation phase.

Now the addition of non-standard speeds is performed in software - if the adapter is made, based on PL2303 chip - the registry updated with new speed (the operation is performed once) and the message about the need to restart the computer.

[!] The algorithm call error codes reset procedure for MUT protocol.

02.07.2011

[!] To finish the inquiry.

[!] From the installer removed the items to install drivers.

[!] Fixed minor bugs in the program management interface.

[+] The distribution includes the program guide in Adobe Acrobat Reader format.

01.07.2011

[!] Improved translation.

30.06.2011

[!] Drawing graphs moved into a separate thread.

[!] Identifies and corrects errors in the graphic part.

[!] Changed the position of the labels in the chart.

28.06.2011

[!] After the session, the stop is not displayed the unit code is not switched tabs (pending switching mechanism has been used). Corrected.

[!] Fixed bug when switching tabs with keyboard diagnostic: "CTRL + 1", "CTRL + 2" ..

[+] To finish two hot protocol type selection keys: K-Line and 1G.

27.06.2011

[!] ExceptionLog - critical error handler to forwarding the report log to developer transferred to a separate thread. On one of the test machines arose podvisanie operating system when you send a letter with the report.

[!] Fixed a bug floating in the error reading module for MUT.

[+] Improved information, the program version 1.3

13.06.2011

[!] Update COM-port list is performed more than once, when the program starts, and each time, when you call the settings window.

10.06.2011

[+] It is the queue manager for any serial polling error codes, parameters, tests.

03.06.2011

[!] For regime MUT error codes polling is executed cyclically.

[+] Buttons palneli tool is now selected via a hotkey. The transition between the first and second level menu is BackSpace key.

27.05.2011

[+] Pause mode is activated by clicking the mouse on schedule. Previously, it was necessary to drag the button to pause mode.

23.05.2011

[+] The program has acquired a new graphical user interface control panel.

13.05.2011

[!] when downloading stored data charts open in full screen mode.

12.05.2011

[!] Fixed the algorithm for determining the presence of the connected adapter.

[!] To Play mode values ??in the graph are duplicated large values ??as in recording.

[!] The sound reproduction mode the channel list in the context menu by just watching.

01.05.2011

Beta version 1.0.1.58

[+] Save / Load information received.

[+] Full list of displayed parameters without scrolling to display the current value.

[+] Print schedules.

- [+] The binding schedules to the height of the screen.
- [+] The purpose of the first 10 individual colors graphics. Subsequent 11..N inherit color graphics
- [+] Each channel has sobvstvennoy setting accuracy of the calculations, which should reduce the discrete draw on the charts.
- [+] Denotes the schedule 0X scale in seconds.
- [+] Vertical mobile token for 0X c axis display values.
- [+] After the session is complete the data available for storage and analysis.
- [!] Scale 0X axis
- [!] Auto Zoom on the axis 0Y
- [+] The absence of the DTC is accompanied by appropriate message.
- [+] Interface mode icons transferred to a 32-bit color.
- [!] Selecting units is made via the toolbar instead of a drop-down menu.

17.03.2011

1. Made of saving data to a file in xml format.

1.51 from 22.02.2011

1. Added a message read at the end of the error codes (Read DTC) of the transaction.
2. Added to the status panel graphical channel under the cursor number.
3. The graphics added to the context menu: work adding features, removing channels.

1.50

[+] Added auto-scaling feature integrated graphics in the main window. The window is made with a changeable border.

1.48

- [+] Record the log file.
- [!] The ISO code reading algorithm. After a reset, re-reading the code is not executed immediately. It is necessary to switch on the ignition and make repeated reading codes.
- [!] Removed the status of current and stored in the reading of ISO codes.
- [+] Added message translations.

Version 1.36 from 26.11.2010

- [!] Fixed errors in the initialization 4WS, SRS units.
- [+] Added Language folder with language pack files. While the transfer is made to the two basic languages: enlglish, Russian.
- [!] To correct the report files
- [!] Fixed translation errors

Version 1.35 from 23.11.2010

- [+] Added new recognized units.
- [!] The input mechanism blocks, enhanced timing accuracy.
- [+] Added a second attempt to enter the unit with an inverted state of DTR line.
- [!] Improved handling states logical parameters: including complex multibit.
- [!] Fixed some bugs in the manager's settings.
- [!] Improved the reading of the ISO protocol error: checking KeyByte1, KeyByte2, checksum.
- [!] Fixed shortcomings in the management of the program interface: ISO Read mode.
- [+] Added display status of signals: DTR, RX, TX.

Assembling 1.1 from 13.10.2010

First build

- ; History.txt - file version history
- ; "MMC-Reader" - a software diagnostic scanner for Mitsubishi
- ; Programming: V. Chernyakov
- ; Coordination, diagnosis: Fedorenko E.
- ; [+] - Adding
- ; [!] - Change
- ; [V] - version