

J2534 Python Release Notes

Product Revision : 6.94
Release Date: 4/6/2005

Component Revisions :

No.	Components/Files	Comments	Revision
1.	Cuxdt32.dll		4.16
2.	Dgunat32.dll	J2534 Python Main DLL	6.94
3.	Midx32.dll		3.43
4.	Python Firmware		1.99
5.	Python Hardware		1A
6.	PythonConfig.exe	Configuration Utility for Hardware Setting and Window Registry	1.111
7.	Python2534SDK.exe	Sample Application	3.03
8.	J2534 Standard Document		03.05

Changes/Additions :

No.	Features	Issue Code	Comments	Ref. Section in J2534 Document	Bug ID (Internal Use)
1.	When exiting the library, a call to turn all supported J1962 pins off.	SI	Change in dgunat32.dll	7.2.9	1665
2.	Firmware version is changed to always get the minor revision (2-digit number). For example, version 3.05 used to be mistakenly output as 3.5. However, 1.95 is always output as 1.95	SI	Change in dgunat32.dll	7.2.10	1685
3.	A delay of 500ms is added after the 5 baud wakeup call.	SI	Change in dgunat32.dll		1709
4.	When entering the library, a call to turn all supported J1962 pins off.	SI	Change in dgunat32.dll	7.2.9	1665

5.	When opening the com port for the Python, a com port read and write timeout is set to zero. This is to fix the problem reported by Nissan Diesel of disturbing the com port setting, then not having good communication especially RS	SI	Change in midx32.dll		1710
6.	PythonConfig.exe prompts the user to connect the Python to the PC when "Auto Detect" button is pressed. This eliminates the prompt from the PythonUSBInstall.exe after installing the newest drivers.	SI	Change in PythonConfig.exe		1714
7.	For ISO9141/ISO14230/AISIN_ISO9141, the J2534 timestamp for the transmitted message will be at the end of its message. For the receive message, the end of the message timestamp will be appended to the extra data.	SI	Change in dgunat32.dll	8.2	1715
8.	There is no flow control filter check for reading, writing, or starting periodic message(s) for ISO15765. This eliminates the problem for J1699 users.	SI	Change in dgunat32.dll		1716
9.	On J1850PWM, when the user sets the data rate to 41,600 manually, it mistakenly returns an error that it is not supported. A fix was made to return successfully.	SI	Change in dgunat32.dll	6.5.3	1717
10.	PythonUSBInstall.exe has a newer USB driver to install.	SI	USB driver update		1692
11.	There was some trouble sending ISO15765 single frame message without any flow control filter set. This is after the elimination for flow	SI	Change in cuxdt32.dll		1726

	control filter check for transmitting messages.				
12.	The midx32.dll is adjusted to make communication work for "COM10" or higher.	SI	Change in midx32.dll		1731
13.	The three DLLs are recoded to not call TerminateThread function to end the thread at the 1 st place. It should be done at the last resort to avoid any memory leaks.	SI	Change in dgunat32.dll, cuxdt32.dll, and midx32.dll		1733
14.	The CAN default baud rate is now configurable through the registry.	SI	Change in dgunat32.dll and PythonConfig.exe		1741
15.	The USBInstall.exe is fixed to not detect USB driver if they are not installed. It happens only on very few PC/laptops.	SI	Change in USBInstall.exe		1744
16.	The firmware and midx32.dll is changed to avoid CAN lockup when setting pass filters.	SI	Change in firmware and midx32.dll		
17.	Resource memory leak is fixed in all DLLs.	SI	Change in DLLs		
18.	ISO15765 Extended CAN ID does not communicate messages correctly because it regards them as a Standard CAN ID. A fix is made for this.	SI	Change in dgunat32.dll		
19.	A fix is made for CAN/ISO15765 disconnect protocol delay.	SI	Change in dgunat32.dll		
20.	The midxPytb.dll is fixed to synchronize the command and actual message received from buffer especially ISO15765.	SI	Change in midxPytb.dll		
21.	The CAN pass/flow control filters get reset whenever CAN baud rate changes. A fix is made to keep those filters.	SI	Change in dgunat32.dll		
22.	A fix is made in the firmware to not have the 1ms delay of	DI	Change in firmware.		

	TWUP before Fast Init.				
23.	A fix is made in DGUNAT32.dll to avoid resource leak in case if Python loses communication while connected to a protocol. It is also the fix if library is unloaded without disconnecting the protocol first.	SI	Change in dgunat32.dll		
24.	ERR_CHANNEL_IN_USE gets detected only if connect flag is set to zero. A fix is made to not regard the connect flag, but only if a Python is currently connected to a protocol.	SI	Change in dgunat32.dll		
25.	The PythonConfig.exe is fixed from initial crash when writing things to registry	SI	Change in PythonConfig.exe		
26.	The DLLs are adjusted to handle the Python Communication more efficiently.	SI	Change in dgunat32.dll and midx32.dll		

DLL Known Bugs :

No.	Issues/Features	Issue Code	Comments	Ref. Section in J2534 Document	Bug ID (Internal Use)
1.	SCP Priority/Type Byte (1 st byte of received msg) is always set to 0	DI	Firmware Feature Design		138

Firmware Known Bugs :

No.	Issues/Features	Issue Code	Comments	Ref. Section in J2534 Document	Bug ID (Internal Use)
1.	When transmitting J1850VPW message of less	DI	Firmware Issue		1348

	than 4 bytes, it gets treated as a received message instead of a transmitted message				
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Not Supported :

No.	Features	Issue Code	Comments	Ref. Section in J2534 Document	Bug ID (Internal Use)
1.	SAE J2610 DaimlerChrysler SCI	SI	Not Implemented	6.5.7	147
2.	“Priority specified by Bit 8” in Bit 11 of Flags for PassThruConnect	DI	The firmware does not allow to set the priority.	7.2.1.3 (Bit 11)	917
3.	“ Both Std & Ext CAN ID” in Bit 11 of Flags for PassThruConnect	DI	The firmware has some restrictions	7.2.1.3 (Bit 11)	918
4.	Protocol Ids	SI	Not Implemented Protocol Ids for : SCI_A_ENGINE SCI_A_TRANS SCI_B_ENGINE SCI_B_TRANS	7.2.1.4	147
5.	SCI Data Format	SI	SCI protocol not supported.	8.3.7	147
6.	SCI Data Format Error Detection	SI	SCI protocol not supported	8.3.7.1	147
7.	RX_BREAK in RxStatus flag	DI	The firmware does not report.	8.4.1 (Bit 2)	920
8.	Programmable Power Supply	DI	Firmware does not support.	6.7	148
9.	ISO15765-2 Extended Addressing method	DI	Python Library does not support	7.2.1.3 (Bit 7)	921
10.	L line usage for ISO9141 and ISO14230	DI	Firmware does not allow to configure through IOCTL.	7.2.1.3 (Bit 12)	886
11.	GET_CONFIG not supported for : T1_MAX, T2_MAX, T4_MAX, T5_MAX, ISO15765_STMIN	DI	Firmware does not support.	7.3.1	922
12.	SET CONFIG not supported	DI	Firmware does	7.3.2	922

	for : T1_MAX, T2_MAX, T4_MAX, T5_MAX, ISO15765_STMIN		not support.		
13.	READ_VBATT	DI	Firmware does not support	7.3.3	153
14.	READ_PROG_VOLTAGE	DI	Firmware does not support.	7.3.4	149
15.	Python does not support 83300 bps for SCP	DI	Firmware does not support that data rate on that protocol	6.5.3	228
16.	Python does not support 41600 bps for Class 2	DI	Firmware does not support that data rate on that protocol	6.5.3	881
17.	Python does not communicate with messages longer than 12 bytes long for J1850VPW	DI	Firmware does not support block transfer mode.	8.3.4	883
18.	Python USB is limited to 57,600 baud for serial port setting and Python RS-232 is limited to 28,800 baud for serial port setting	DI	Firmware supports that baud rate		144
19.	This release has been tested on Windows NT 4.0, 95C, 98, 2000, and XP.	NA			923

Issue Code :

SI – Software Issue (Bugs/Issues in the J2534 software)

DI – Dependency Issue (Bugs/Issues in the external dependencies, e.g. firmware, hardware, interface library etc.)

NA – Not Applicable