

## J2534 Python 1B Release Notes

**Product Revision : 9.01**

**Release Date: 8/21/2006**

### Component Revisions :

| No. | Components/Files        | Comments   | Revision |
|-----|-------------------------|--|----------|
| 1.  | CuxdP404.dll            |  | 9.01     |
| 2.  | DgP40432.dll            | J2534 Python1B Main DLL  | 9.01     |
| 3.  | MidxP404.dll            |  | 9.01     |
| 4.  | Python Firmware         |  | 3.42     |
| 5.  | Python Hardware         |  | 1B       |
| 6.  | Python1BConfig0404.exe  | Configuration Utility for Hardware Setting and Window Registry | 4.02     |
| 7.  | Python1B2534SDK.exe     | Sample Application   | 4.031    |
| 8.  | J2534 Standard Document |  | 04.04    |
| 9.  | PythonReflash.exe       | Python 1B Reflash Application                                  | 1.041    |

### Changes/Additions :

| No. | Features   | Issue Code | Comments                       | Ref. Section in J2534 Document | Bug ID |
|-----|--|------------|--------------------------------|--------------------------------|--------|
| 1.  | The names of the files has changed to distinguish them as API version 04.04 from the older versions. For example, CuxdtPtb.dll is changed to CuxdP404.dll, DGPytb32.dll to DGP40432.dll, and MidxPytb.dll to MidxP404.dll. This change is reflected in Python1B2534SDK.exe and Python1BConfig0404.exe. | SI         | Changes in DLLs and some EXEs. |                                |        |
| 2.  | ERR_CHANNEL_IN_USE   | SI         | Change in                      |                                |        |

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|-----|---|----|---|--|--|
|     | 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. |    | DGP40432.dll                            |  |  |
| 3.  | The DGP40432.dll is made to ensure ISO/KWP transmit acknowledgement and assurance.  | SI | Change in DGP40432.dll                  |  |  |
| 4.  | The DLLs are adjusted to handle the Python Communication more efficiently.  | SI | Change in DGP40432.dll and MidxP404.dll |  |  |
| 5.  | Firmware 3.26 has ISO/KWP timing adjustments for transmit messages.   | DI | Change in firmware                      |  |  |
| 6.  | When calling FAST_INIT, a fix is made to allow pInput and pOutput pointers to be NULL to pass   | SI | Change in DGP40432.dll                  |  |  |
| 7.  | On certain IOCTL features that are unchangeable, a fix is made to allow the user to GET_CONFIG and SET_CONFIG to only the default value.                    | SI | Change in DGP40432.dll                  |  |  |
| 8.  | When connecting and disconnecting to/from a protocol, a fix is made to clear all the message from the buffer waiting to be read.                            | SI | Change in DGP40432.dll and MidxP404.dll |  |  |
| 9.  | The synchronization is added between periodic messages and non-blocking write messages  | SI | Change in DGP40432.dll                  |  |  |
| 10. | A fix is made for ISO15765 Blocking Write to correctly process the transmit acknowledgement.  | SI | Change in DGP40432.dll                  |  |  |
| 11. | Synchronization is added between the two message buffers in MidxP404.dll to avoid out of order received message.  | SI | Change in MidxP404.dll                  |  |  |
| 12. | The timestamp of the  | SI | Change in                               |  |  |

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|     | message packets are calculated differently due to rollovers.   |    | DGP40432.dll                     |  |  |
| 13. | The scaling for READ_VBATT is adjusted depending on the type of Python 1B device being used.   | SI | Change in DGP40432.dll           |  |  |
| 14. | A fix is made to allow certain Ioctl command to be executed without connecting to the protocol.  | SI | Change in DGP40432.dll           |  |  |
| 15. | Firmware 3.27 has the fix for P3 timing.   | DI | Change in firmware               |  |  |
| 16. | Firmware 3.39 has the timing fix for ISO9141 and ISO14230.   | DI | Change in firmware               |  |  |
| 17. | The valid ProtocolID values for PassThruConnect() have changed to from J1850VPW (0x01) thru SCI_B_TRANS (0x0A) and AISIN_ISO9141 (0x10000) | SI | Change in DGP40432.dll           |  |  |
| 18. | The DataSize for ISO9141/ISO14230 START_OF_MESSAGE indication is changed to 0.   | SI | Change in DGP40432.dll           |  |  |
| 19. | Firmware 3.40 has a change in timing for processing FAST_INIT response.  | DI | Change in firmware               |  |  |
| 20. | CAN_MIXED_FORMAT is being supported for OFF and ON, but not ALL  | SI | Change in DGP40432.dll           |  |  |
| 21. | The Config Application now gets the path through DGP40432.ini to see accurate information  | SI | Change in Python1BConfig0404.exe |  |  |
| 22. | Fixed a crash after running an app along with this dll over a long period of time.   | SI | Change in DGP40432.dll           |  |  |
| 23. | The firmware 3.41 has the fix for L follow and not follow K for 5-baud init.   | SI | Firmware Issue                   |  |  |
| 24. | Firmware 3.42 has the fix for ISO15765 communication.  | DI | Firmware Issue                   |  |  |

**DLL Known Bugs :**

| No. | Issues/Features  | Issue Code | Comments                | Ref. Section in J2534 Document | Bug ID |
|-----|--|------------|-------------------------|--------------------------------|--------|
| 1.  | SCP Priority/Type Byte (1 <sup>st</sup> 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 |
|-----|---|------------|----------------|--------------------------------|--------|
| 1.  | When transmitting J1850VPW message of less than 4 bytes, it gets treated as a received message instead of a transmitted message | DI         | Firmware Issue |                                | 1348   |

**Not Supported :**

| No. | Features   | Issue Code | Comments   | Ref. Section in J2534 Document | Bug ID |
|-----|--|------------|--|--------------------------------|--------|
| 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<br>Protocol Ids for :<br>SCI_A_ENGINE<br>SCI_A_TRANS<br>SCI_B_ENGINE | 7.2.1.4                        | 147    |

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|-----|--|----|---|-----------------|-----|
|     |  |    | SCI_B_TRANS   |                 |     |
| 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. | GET_CONFIG not supported for :<br>T1_MAX, T2_MAX,<br>T4_MAX, T5_MAX,<br>ISO15765_STMIN   | DI | Firmware does not support.                                | 7.3.1           | 922 |
| 11. | SET_CONFIG not supported for :<br>T1_MAX, T2_MAX,<br>T4_MAX, T5_MAX,<br>ISO15765_STMIN   | DI | Firmware does not support.                                | 7.3.2           | 922 |
| 12. | READ_PROG_VOLTAGE  | DI | Firmware does not support.                                | 7.3.4           | 149 |
| 13. | Python does not support 83333 bps for SCP  | DI | Firmware does not support that data rate on that protocol | 6.5.3           | 228 |
| 14. | Python does not support 41666 bps for Class 2  | DI | Firmware does not support that data rate on that protocol | 6.5.3           | 881 |
| 15. | 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 |
| 16. | 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 |
| 17. | 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