DAD Translated Static Data File Requirements

File Name

The file name of the translated data file shall contain the 16 character GUID supplied by calling function. (all chars are ASCII 48-57 and 97-122) and have the text "_TRANS" appended at the end of the GUID. The files extension shall be three characters only.

Examples:
c7a93487b68d6d10_TRANS.csv
4018204dbd519d20_TRANS.csv

File structure

Data header (First line of file):
The first line of the file shall contain the column names as specified in column A "Column Name". The line shall NOT contain any spaces or commas in the field names. The line shall be comma delimited between column names.

Data lines of the file:
The remaining lines of the file shall be complete data records as received from the vehicles OBD-II system and shall be formatted as outlined in columns B through G. Each line of data will be from a specific ECU of the vehicle. The lines of data shall be in descending order of "number of PIDs supported" by the ECUs on the vehicle.

General File Requirements

The file shall be a standard "CSV" file that is compatible with Microsoft Excel 2003/2007/2010.

No data within the file may contain commas (","). Commas must only be used as delimiters at the file level.

No data shall contain a "space" (ASCII char 32) unless that data is a string value per the SAE J1979 SEP2010 specification and that data contains a space character. i.e. a VIN with a space in it. A space or comma may NOT be used to delimit DTCs in mode $03, $07, and $0A. There shall be no delimiter.

Data fields that do not contain values should contain the appropriate code such as "NS", "NR", as per this specification.

Column Name	SID (Mode ID in hex)	PID (Parameter ID in hex)	Expected Number of Data Bytes or ASCII Characters	Description of Data	Value Range or Value Type	Expected Format of Data to Output File
Data Source Information						
SESSION_ID	N/A	N/A	16	The unique ID of the current "Smog Check" test being performed.	16 character GUID supplied by calling function. (all chars are ASCII 48-57 and 97-122)	ASCII text
VIN_INPUT	N/A	N/A	17	The VIN of the vehicle as passed to the OBD-II module from the VID. This value may be blank and may not coincide with the SID $09 PID $02 value	Variable length or blank. Shall not contain any spaces.	ASCII text
PROTOCOL	N/A	N/A	8	The protocol the vehicle uses. Determined by attempting communication with the vehicle with a SID $01 PID $00 request.	JPWM1850, JVPW1850, I9140808, I9149494, ICAN11bt, ICAN29bt, "KWPS" followed by the hex keywords (key byte 2 then key byte 1) without a space (e.g., "KWPS8FE9"), "KWPF" followed by the hex keywords (key byte 2 then key byte 1) without a space (e.g., "KWPF 8F6B")	ASCII text
BUS_VOLTAGE	N/A	N/A	3	The BUS voltage found on pin 16 of the OBD-II connecter	-24 to +24 Volts	ASCII text
ADDRESS	N/A	N/A	4	The hex address value of the vehicle's computer that the data is collected from.	00-FF for one byte addresses, 07E8-07EF for two byte addresses	Hex represented as ASCII
Mode 1 (0x01)						
SID01_PID00	0x01	0x00	4	PIDs supported [01 - 20]	Binary from (hex) 00000000 - FFFFFFFF	Binary string in text format Example: "01010101010101010101010101010101"
SID01_PID01	0x01	0x01	4	Monitor status since DTCs cleared. (Includes malfunction indicator lamp (MIL) status and number of DTCs.)	Binary from (hex) 00000000 - FFFFFFFF	Binary string in text format Example: "01010101010101010101010101010101"
SID01_P1_DTCS	0x01	0x01	7 bits	Number of emission-related DTCs stored in ECU	(decimal) 0-127 of Byte A bits 0-6	Decimal number as text string
SID01_P1_MIL	0x01	0x01	1 bit	Malfunction Indicator Lamp (MIL) Status	(binary) 0 or 1 of Byte A bit 7	If value is 0 then field shall contain "MIL_OFF". If value is 1 the field shall contain "MIL_ON".
SID01_P1_CMS0	0x01	0x01	1 bit	Misfire monitoring supported	(binary) 0 or 1 of Byte B bit 0	If value is 0 then field shall contain "NO". If value is 1 the field shall contain "YES".
SID01_P1_CMS1	0x01	0x01	1 bit	Fuel system monitoring supported	(binary) 0 or 1 of Byte B bit 1	If value is 0 then field shall contain "NO". If value is 1 the field shall contain "YES".
SID01_P1_CMS2	0x01	0x01	1 bit	Comprehensive component monitoring supported	(binary) 0 or 1 of Byte B bit 2	If value is 0 then field shall contain "NO". If value is 1 the field shall contain "YES".
SID01_P1_CMS3	0x01	0x01	1 bit	Compression ignition monitoring supported	(binary) 0 or 1 of Byte B bit 3	If value is 0 then field shall contain "NO". If value is 1 the field shall contain "YES".
SID01_P1_CMR0	0x01	0x01	1 bit	Misfire monitoring ready	(binary) 0 or 1 of Byte B bit 4	If value is 0 then field shall contain "YES". If value is 1 the field shall contain "NO".
SID01_P1_CMR1	0x01	0x01	1 bit	Fuel system monitoring ready	(binary) 0 or 1 of Byte B bit 5	If value is 0 then field shall contain "YES". If value is 1 the field shall contain "NO".
SID01_P1_CMR2	0x01	0x01	1 bit	Comprehensive component monitoring ready	(binary) 0 or 1 of Byte B bit 6	If value is 0 then field shall contain "YES". If value is 1 the field shall contain "NO".
SID01_P1_CMR3	0x01	0x01	1 bit	ISO/SAE reserved (bit shall be reported as "0")	(binary) 0 or 1 of Byte B bit 7	If value is 0 then field shall contain "YES". If value is 1 the field shall contain "NO".
SID01_P1_MS0	0x01	0x01	1 bit	Catalyst monitoring supported (NMHC catalyst monitoring supported)	(binary) 0 or 1 of Byte C bit 0	If value is 0 then field shall contain "NO". If value is 1 the field shall contain "YES".
SID01_P1_MS1	0x01	0x01	1 bit	Heated catalyst monitoring supported (NOx/SCR after treatment monitoring supported)	(binary) 0 or 1 of Byte C bit 1	If value is 0 then field shall contain "NO". If value is 1 the field shall contain "YES".
SID01_P1_MS2	0x01	0x01	1 bit	Evaporative system monitoring supported (ISO/SAE reserved (bit shall be reported as "0")	(binary) 0 or 1 of Byte C bit 2	If value is 0 then field shall contain "NO". If value is 1 the field shall contain "YES".
SID01_P1_MS3	0x01	0x01	1 bit	Secondary air system monitoring supported (Boost pressure system monitoring supported)	(binary) 0 or 1 of Byte C bit 3	If value is 0 then field shall contain "NO". If value is 1 the field shall contain "YES".
SID01_P1_MS4	0x01	0x01	1 bit	ISO/SAE reserved (bit shall be reported as "0")	(binary) 0 or 1 of Byte C bit 4	If value is 0 then field shall contain "NO". If value is 1 the field shall contain "YES".
SID01_P1_MS5	0x01	0x01	1 bit	Oxygen sensor monitoring supported (Exhaust gas sensor monitoring supported)	(binary) 0 or 1 of Byte C bit 5	If value is 0 then field shall contain "NO". If value is 1 the field shall contain "YES".
SID01_P1_MS6	0x01	0x01	1 bit	Oxygen sensor heater monitoring supported (PM filter monitoring supported)	(binary) 0 or 1 of Byte C bit 6	If value is 0 then field shall contain "NO". If value is 1 the field shall contain "YES".
SID01_P1_MS7	0x01	0x01	1 bit	EGR and/or VVT system monitoring supported	(binary) 0 or 1 of Byte C bit 7	If value is 0 then field shall contain "NO". If value is 1 the field shall contain "YES".
SID01_P1_MR0	0x01	0x01	1 bit	Catalyst monitoring ready (NMHC catalyst monitoring ready)	(binary) 0 or 1 of Byte D bit 0	If value is 0 then field shall contain "YES" or "NA" if not supported. If value is 1 the field shall contain "NO".
SID01_P1_MR1	0x01	0x01	1 bit	Heated catalyst monitoring ready (NOx/SCR after treatment monitoring ready)	(binary) 0 or 1 of Byte D bit 1	If value is 0 then field shall contain "YES" or "NA" if not supported. If value is 1 the field shall contain "NO".
SID01_P1_MR2	0x01	0x01	1 bit	Evaporative system monitoring ready (ISO/SAE reserved (bit shall be reported as "0")	(binary) 0 or 1 of Byte D bit 2	If value is 0 then field shall contain "YES" or "NA" if not supported. If value is 1 the field shall contain "NO".
SID01_P1_MR3	0x01	0x01	1 bit	Secondary air system monitoring ready (Boost pressure system monitoring ready)	(binary) 0 or 1 of Byte D bit 3	If value is 0 then field shall contain "YES" or "NA" if not supported. If value is 1 the field shall contain "NO".
SID01_P1_MR4	0x01	0x01	1 bit	ISO/SAE reserved (bit shall be reported as "0")	(binary) 0 or 1 of Byte D bit 4	If value is 0 then field shall contain "YES" or "NA" if not supported. If value is 1 the field shall contain "NO".
SID01_P1_MR5	0x01	0x01	1 bit	Oxygen sensor monitoring ready (Exhaust gas sensor monitoring ready)	(binary) 0 or 1 of Byte D bit 5	If value is 0 then field shall contain "YES" or "NA" if not supported. If value is 1 the field shall contain "NO".
SID01_P1_MR6	0x01	0x01	1 bit	Oxygen sensor heater monitoring ready (PM filter monitoring ready)	(binary) 0 or 1 of Byte D bit 6	If value is 0 then field shall contain "YES" or "NA" if not supported. If value is 1 the field shall contain "NO".
SID01_P1_MR7	0x01	0x01	1 bit	EGR and/or VVT system monitoring ready	(binary) 0 or 1 of Byte D bit 7	If value is 0 then field shall contain "YES" or "NA" if not supported. If value is 1 the field shall contain "NO".
SID01_PID05	0x01	0x05	1	Engine Coolant Temperature	See SAE J1979 SEP2010 Spec.	See SAE J1979 SEP2010 Spec.
SID01_PID0C	0x01	0x0C	2	Engine RPM	See SAE J1979 SEP2010 Spec.	See SAE J1979 SEP2010 Spec.
SID01_PID0F	0x01	0x0F	1	Intake Air Temperature	See SAE J1979 SEP2010 Spec.	See SAE J1979 SEP2010 Spec.
SID01_PID13	0x01	0x13	1	Location of Oxygen Sensors	See SAE J1979 SEP2010 Spec.	See SAE J1979 SEP2010 Spec.
SID01_PID1C	0x01	0x1C	1	OBD requirements to which the vehicle or engine is certified	See SAE J1979 SEP2010 Spec.	See SAE J1979 SEP2010 Spec.
SID01_PID1D	0x01	0x1D	1	Location of oxygen sensors	See SAE J1979 SEP2010 Spec.	See SAE J1979 SEP2010 Spec.
SID01_PID20	0x01	0x20	4	PIDs supported [21 - 40]	Binary from (hex) 00000000 - FFFFFFFF	Binary string in text format Example: "01010101010101010101010101010101"
SID01_PID21	0x01	0x21	2	Distance Traveled While MIL is Activated	See SAE J1979 SEP2010 Spec.	See SAE J1979 SEP2010 Spec.
SID01_PID30	0x01	0x30	1	Number of warm-ups since DTCs cleared	See SAE J1979 SEP2010 Spec.	See SAE J1979 SEP2010 Spec.
SID01_PID31	0x01	0x31	2	Distance traveled since DTCs cleared	See SAE J1979 SEP2010 Spec.	See SAE J1979 SEP2010 Spec.
SID01_PID40	0x01	0x40	4	PIDs supported [41 - 60]	Binary from (hex) 00000000 - FFFFFFFF	Binary string in text format Example: "01010101010101010101010101010101"
SID01_PID42	0x01	0x42	2	Control module voltage	See SAE J1979 SEP2010 Spec.	See SAE J1979 SEP2010 Spec.
SID01_PID46	0x01	0x46	1	Ambient air temperature (same scaling as IAT - $0F)	See SAE J1979 SEP2010 Spec.	See SAE J1979 SEP2010 Spec.
SID01_PID4D	0x01	0x4D	2	Engine run time while MIL is activated	See SAE J1979 SEP2010 Spec.	See SAE J1979 SEP2010 Spec.
SID01_PID4E	0x01	0x4E	2	Engine run time since DTCs cleared	See SAE J1979 SEP2010 Spec.	See SAE J1979 SEP2010 Spec.
SID01_PID51	0x01	0x51	1	Type of fuel currently being utilized by the vehicle	See SAE J1979 SEP2010 Spec.	See SAE J1979 SEP2010 Spec.
SID01_PID52	0x01	0x52	1	Alcohol Fuel Percentage	See SAE J1979 SEP2010 Spec.	See SAE J1979 SEP2010 Spec.
SID01_PID5B	0x01	0x5B	1	Hybrid Battery Pack Remaining Life	See SAE J1979 SEP2010 Spec.	See SAE J1979 SEP2010 Spec.

Column Name	SID (Mode ID in hex)	PID (Parameter ID in hex)	Expected Number of Data Bytes or ASCII Characters	Description of Data	Value Range or Value Type	Expected Format of Data to Output File
SID01_PID60	0x01	0x60	4	PIDs supported [61 - 80]	Binary from (hex) 00000000 - FFFFFFFF	Binary string in text format Example: "01010101010101010101010101010101"
SID01_PID67	0x01	0x67	3	Engine Coolant Temperature	See SAE J1979 SEP2010 Spec.	See SAE J1979 SEP2010 Spec.
SID01_PID7F	0x01	0x7F	13	Engine Run Time	See SAE J1979 SEP2010 Spec.	See SAE J1979 SEP2010 Spec.
SID01_PID80	0x01	0x80	4	PIDs supported [81 - A0]	Binary from (hex) 00000000 - FFFFFFFF	Binary string in text format Example: "01010101010101010101010101010101"
SID01_PID81	0x01	0x81	11	Engine Run Time for AECD #1 - #5	See SAE J1979 SEP2010 Spec.	See SAE J1979 SEP2010 Spec.
SID01_PID82	0x01	0x82	11	Engine Run Time for AECD #6 - #10	See SAE J1979 SEP2010 Spec.	See SAE J1979 SEP2010 Spec.
SID01_PID85	0x01	0x85	4	NOx Warning Indicator Time	See SAE J1979 SEP2010 Spec.	See SAE J1979 SEP2010 Spec.
SID01_PID88	0x01	0x88	13	SCR induced system actual state	See SAE J1979 SEP2010 Spec.	See SAE J1979 SEP2010 Spec.
SID01_PID89	0x01	0x89	11	Engine Run Time for AECD #11 - #15	See SAE J1979 SEP2010 Spec.	See SAE J1979 SEP2010 Spec.
SID01_PID8A	0x01	0x8A	11	Engine Run Time for AECD #16 - #20	See SAE J1979 SEP2010 Spec.	See SAE J1979 SEP2010 Spec.
SID01_PID8B	0x01	0x8B	7	Diesel After treatment Status	See SAE J1979 SEP2010 Spec.	See SAE J1979 SEP2010 Spec.
Mode 3 (0x03)						
SID03	0x03	N/A	Variable	Request Emission-Related Diagnostic Trouble Codes	ASCII plus Hex represented by ASCII, from P0000 to P39FF, also U, B, or C in lieu of P	First two digits are ASCII alphanumeric designator (e.g. P0, U0, B1, or C2), Hex as ASCII for next three digits, each code is delimited by "Vertical Bar" (ASCII character 0x7C)
Mode 7 (0x07)						
SID07	0x07	N/A	Variable	Request Emission-Related Diagnostic Trouble Codes Detected During Current or Last Completed Driving Cycle	See SAE J1979 SEP2010 Spec.	See SAE J1979 SEP2010 Spec.
Mode 9 (0x09)						
SID09_PID00	0x09	0x00	4	INFOTYPE IDs supported [01 - 20]	Binary from (hex) 00000000 - FFFFFFFF	Binary string in text format Example: "01010101010101010101010101010101"
SID09_PID02	0x09	0x02	17	Vehicle identification number (VIN)	See SAE J1979 SEP2010 Spec.	See SAE J1979 SEP2010 Spec.
SID09_PID04	0x09	0x04	16	Calibration Identifications	See SAE J1979 SEP2010 Spec.	See SAE J1979 SEP2010 Spec.
SID09_PID06	0x09	0x06	4	Calibration Verification Numbers	See SAE J1979 SEP2010 Spec.	See SAE J1979 SEP2010 Spec.
SID09_PID08	0x09	0x08	32 or 40	In-use Performance Tracking: 16 or 20 counters	See SAE J1979 SEP2010 Spec.	See SAE J1979 SEP2010 Spec.
SID09_PID0A	0x09	0x0A	20	ECUNAME	See SAE J1979 SEP2010 Spec.	See SAE J1979 SEP2010 Spec.
SID09_PID0B	0x09	0x0B	32 or 36	In-use Performance Tracking: 16 to 18 counters	See SAE J1979 SEP2010 Spec.	See SAE J1979 SEP2010 Spec.
Mode 10 (0x0A)						
SID0A	0x0A	N/A	Variable	Request Emission-Related Diagnostic Trouble Codes with Permanent Status	ASCII plus Hex represented by ASCII, from P0000 to P39FF, also U, B, or C in lieu of P	First two digits are ASCII alphanumeric designator (e.g. P0, U0, B1, or C2), Hex as ASCII for next three digits, each code is delimited by "Vertical Bar" (ASCII character 0x7C)