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# Revision History

|  |  |  |  |
| --- | --- | --- | --- |
| REV | DATE | SIGN | COMMENT |
| PA1 | 20250430 | RS | Created |

# Purpose

The purpose of this document is to explain how the database is constructed for instructions used by battread and to purpose future solutions.

# Table structure – now

|  |  |  |
| --- | --- | --- |
| Name | Data type | purpose |
| Description | String | Description of which car model and year range instruction can fit |
| Signal name | String | Signal name which will be requested. Ex: SOH |
| CAN ID request | String | ID of request for signal represented in hex |
| CAN ID response | String | ID of response for signal represented in hex |
| Obd2 mode request | String | OBD2 mode of request for signal represented in hex |
| Obd2 mode response | String | OBD2 mode of response for signal represented in hex |
| Number of bytes | String | Not used! (Only used for special case code to describe little endian) |
| PID | String | PID of request and response for signal represented in hex |
| Frame type | Enum | “Single”, “Multi”, “Periodic”  Describing what type of frame signal is of. |
| Start byte index | Int | Which byte position start of payload is |
| End byte index | Int | Which byte position end of payload is |
| Payload row index | Int | Which row position payload is |
| scaling | Float | Value = raw \* scaling + offset |
| Offset | Float | Value = raw \* scaling + offset |
| At commands | List[String] | List of extra at commands needed |

# Table structure – proposal

|  |  |  |
| --- | --- | --- |
| Name | Data type | purpose |
| Description | String | Description of which car model and year range instruction can fit |
| Signal name | String | Signal name which will be requested. Ex: SOH |
| CAN ID request | String | ID of request for signal represented in hex |
| CAN ID response | String | ID of response for signal represented in hex |
| Extended frame | Bool | Flag for represent 29 bit ID header |
| CAN Message request length | String | OBD2 length of request for signal represented in hex |
| OBD2 mode request | String | OBD2 mode of request for signal represented in hex |
| OBD2 mode response | String | OBD2 mode of response for signal represented in hex |
| ~~Number of bytes~~ | ~~String~~ | ~~Not used! (Only used for special case code to describe little endian)~~ |
| Little endian | Bool | describe little endian case |
| PID | String | PID of request and response for signal represented in hex |
| Frame type | Enum | “Single”, “Multi”, “Periodic”  Describing what type of frame signal is of. |
| Start byte index | Int | Which byte position start of payload is |
| End byte index | Int | Which byte position end of payload is |
| Payload row index | Int | Which row position payload is |
| scaling | Float | Value = raw \* scaling + offset |
| Offset | Float | Value = raw \* scaling + offset |
| At commands | List[String] | List of extra at commands needed |