Power Managmenet v1.0

communication protocol

1. Power Management v1.0 **received** messages

1.1 Command messages

*CMD\_VSRV*

CAN ID:

Calss: 0x0E

Device: 0x01

Type: 0x00 (CAN\_MESSAGETYPE\_COMMAND)

DLC: 2

Data:

| Byte offset | Format | Name | Code |
| --- | --- | --- | --- |
| 0 | U8 | CMD\_VSRV | 0x20 |
| 1 | U8 | VSRV\_ON | 0x01 |
| VSRV\_OFF | 0x02 |

*CMD\_HVDC*

CAN ID:

Calss: 0x0E

Device: 0x01

Type: 0x00 (CAN\_MESSAGETYPE\_COMMAND)

DLC: 2

Data:

| Byte offset | Format | Name | Code |
| --- | --- | --- | --- |
| 0 | U8 | CMD\_HVDC | 0x30 |
| 1 | U8 | HVDC\_ON | 0x01 |
| HVDC\_OFF | 0x02 |

2. Power Management v1.0 **sent** messages

2.1 Status messages

*Power managemenet status*

CAN ID:

Calss: 0x0E

Device: 0x01

Type: 0x04 (CAN\_MESSAGETYPE\_STATUS)

DLC: 3

Data:

| Byte offset | Format | Name | Code |
| --- | --- | --- | --- |
| 0 | BIT0 | MainSwitch | - |
| BIT1 | VSRV | - |
| BIT2 | HVCharging | - |
| BIT3 | HVBrake | - |
| 1 | U8 | LV\_BatteryState | - |
| 2 | U8 | HV\_BatteryState | - |

LV\_BatteryState, HV\_BatteryState values:

* 0x00 – Ok
* 0x01 – Low
* 0x02 – Critical
* 0x03 – Dead

2.2 Measurement messages

*Power managemenet measurements*

CAN ID:

Calss: 0x0E

Device: 0x01

Type: 0x03 (CAN\_MESSAGETYPE\_MEASUREMENT)

DLC: 8

Data:

| Byte offset | Format | Name | Format |
| --- | --- | --- | --- |
| 0 | U16 | VbatLV | Q4.12 |
| 2 | U16 | VbatHV | Q5.11 |
| 4 | U16 | VDC | Q5.11 |
| 6 | I16 | Im | Q15.0 |

All other CAN messages are restricted!