

# Exploring DBC Autogenerated API

## DBC Encode API

```
void can_transmitter_option1(void) {
    dbc_DRIVER_HEARTBEAT_s heartbeat={};
    dbc_SENSOR_SONARS_s sensor_values={};
    dbc_message_header_t header;
    can_msg_t can_msg = {};
    header = dbc_encode_SENSOR_SONARS(can_msg.data.bytes, &sensor_values);
    can_msg.msg_id = header.message_id;
    can_msg.frame_fields.data_len = header.message_dlc;
    can_tx(can1, &can_msg, 0);
    header = dbc_encode_DRIVER_HEARTBEAT(can_msg.data.bytes, &heartbeat);
    can_msg.msg_id = header.message_id;
    can_msg.frame_fields.data_len = header.message_dlc;
    can_tx(can1, &can_msg, 0);}
}
```

## DBC Encode and Send API

```
void can_transmitter_option2(void) {
    dbc_DRIVER_HEARTBEAT_s heartbeat={};
    dbc_SENSOR_SONARS_s sensor_values={};
    void *unused = NULL;
    dbc_encode_and_send_DRIVER_HEARTBEAT(unused, &sensor_values);
    dbc_encode_and_send_DRIVER_HEARTBEAT(unused, &heartbeat);
}
}
```

```
bool dbc_send_can_message(void * argument_from_dbc_encode_and_send, uint32_t message_id, const uint8_t
    can_msg_t can_msg = {};

    can_msg.msg_id = message_id;
    can_msg.frame_fields.data_len = dlc;
    memcpy(can_msg.data.bytes, bytes, sizeof(can_msg.data.bytes));

    can_tx(can1, &can_msg, 0);}
```

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