

My Project

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Chapter 1

Class Index

1.1 Class List

Here are the classes, structs, unions and interfaces with brief descriptions:

MSP_packetInfo	5
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Chapter 2

File Index

2.1 File List

Here is a list of all documented files with brief descriptions:

obc-tm-test/ ax25.h	7
obc-tm-test/ ccsds.h	??
obc-tm-test/ crc.h	??
obc-tm-test/ debug.h	??
obc-tm-test/ errors.h	??
obc-tm-test/ I2C.h	??
obc-tm-test/ I2C_configuration.h	??
obc-tm-test/ trxvu_sim_lib.h	7
trxvu-tm-test/ debug2.h	??
trxvu-tm-test/ I2C_configuration.h	??
trxvu-tm-test/ I2Cslave.h	??
trxvu-tm-test/ SlaveDefinitions.h	??

Chapter 3

Class Documentation

3.1 MSP_packetInfo Struct Reference

Public Attributes

- volatile uint8_t * **MSP_packet**
- uint32_t **packetSize**

The documentation for this struct was generated from the following file:

- trxvu-tm-test/I2Cslave.h

Chapter 4

File Documentation

4.1 obc-tm-test/ax25.h File Reference

Macros

- `#define AX25_NFO_HEADER_SIZE 4`
- `#define AX25_NFO_NO_DATA_SIZE 5`

Functions

- `uint8_t addAX25Frame (uint8_t *ax25Buffer, uint8_t *ax25BufferSize, uint8_t *telemetryData, uint8_t telemetryDataLength)`

4.2 obc-tm-test/trxvu_sim_lib.h File Reference

Macros

- `#define GENERAL_ERROR 7`
- `#define TIME_OUT_ERROR 6`
- `#define WRITE_ERROR 4`
- `#define NO_ERROR 0`
- `#define DOWNLINK_BUFFER_FULL 255`
- `#define INVALID_CALLSIGN 254`
- `#define PACKET_TOO_LARGE 252`
- `#define SEND_TM_DEF_CALLSIGN 0x10`
- `#define SET_DEFAULT_TO_CALLSIGN 0x22`
- `#define MAXIMUM_BUFFER_SIZE 235`

Functions

- `void generate_command (uint8_t *command_buffer, uint32_t *command_length, uint8_t command, uint8_t *parameter, uint8_t parameter_length)`
- `int SimTrxvu_tcSetDefToCISign (unsigned char index, unsigned char *fromCallsign, unsigned char *feedback)`
- `int SimTrxvu_tcSendAX25DefCISign (unsigned char index, unsigned char *data, unsigned char length, unsigned char *avail)`

4.2.1 Function Documentation

4.2.1.1 SimTrxvu_tcSendAX25DefClSign()

```
int SimTrxvu_tcSendAX25DefClSign (
    unsigned char index,
    unsigned char * data,
    unsigned char length,
    unsigned char * avail )
```

function is devied into 2 steps

1. sending a byte to indicate the command for trxvu
2. sending data to trxvu .

Parameters

<i>index</i>	I2C address
<i>data</i>	data to be sent downinked
<i>length</i>	length of data to be downlinked
<i>avail</i>	pointer to buffer, where the available frame count will be stored

Note

what would be written in doxygen? :0

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