ARTOA3 memory data format specification

Revision 2, 11.07.19

# RFB-Files

The RFB Files are structured in sections that contain either key value pairs in each line, or a matrix. The representation of a rfb file as MATLAB variable is shown in the following example.

| RFB file | MATLAB representation |
| --- | --- |
| [Section1]  -key value  -duplicateKey 2017 01 14 05 08 00  -duplicateKey 2018 02 07 10 54 07  [SAT\_FORMAT]  -lat\_sat 1  -lon\_sat 2  -src 3  [SAT\_DATA]  -68.9953472 -27.9915392 gps 2017 1  -69.0085312 -28.1737056 gps 2017 1  [DATA]  9999 9999 9999 9999 9999 9999 9999 9.9990000e+03  2 2017 1 15 11 30 23 1.7600000e+02  3 2017 1 16 11 30 22 1.4600000e+02  9999 9999 9999 9999 9999 9999 9999 9.9990000e+03 | Struct with 4 fields:  Section1 (1x1 struct)  SAT\_FORMAT (1x1 struct)  SAT\_DATA (2x5 cell)  DATA (4x8 double)  Section1:   |  |  | | --- | --- | | key | value | | duplicateKey | [2017,1,14,5,8,0; | |  | 2018,2,7,10,54,7] | |

When a key exists more than once in a section that gets parsed as struct, every duplication will be appended to the existing key building either a char array, or a matrix.

# SoundSource-Files

The sound source files are loaded using the same function that underlies the RFB loading. So the same structure is available after loading, see RFB-Files.