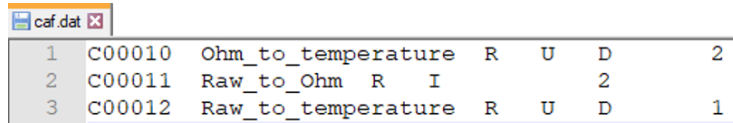# 1 Appendix C: Export of the SimpleSAT SRDB data into MIB data exchange format

Once our SimpleSAT SRDB data is well defined, we aim here to illustrate how this data could be represented in a set of MIB-compliant files. For each important object we provide a snapshot of its representation in the MIB files. For the detail of each column, it is possible to refer to the SCOS-2000 ICD (https://issues.cosmos.esa.int/solarorbiterwiki/download/attachments/23757668/MOC-applicable

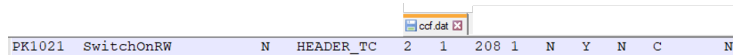- Definition telemetry calibrations and their properties are depicted in Figure 1.

Figure 1: Illustration of the content of the MIB **CAF** file
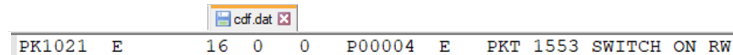
- Definition of the service 2 TC packet is depicted in Figure 2.

Figure 2: Illustration of the content of the MIB **CCF** file

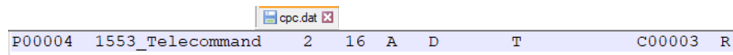- Service 2 TC packet that references a parameter which embeds the instance of the Mil-Std-1553 TC encoded in hexadecimal is depicted in Figure 3.

Figure 3: Illustration of the content of the MIB **CDF** file

- The parameter referenced by the service 2 TC packet and that embeds instances of Mil-Std-1553 TCs is depicted in Figure 4.

Figure 4: Illustration of the content of the MIB **CPC** file

- Definition of telemetry parameters along with their calibrations are depicted in Figure 5.

```
pcf.dat
P00000  Filler             3   11           N   R           F   N
P00001  RW_Temperature     degC  3   12             N   R   C00012  F   N   2
P00002  RW_Status          1   0              S   R   C00002  F   N
P00003  RW_Global_Status        3   14             N   R       F   N
P00005  TC_PACKET_ID            3   12         N   R       F   N
P00006  TC_PACKET_SEQ_CTRL      3   12         N   R       F   N
```

Figure 5: Illustration of the content of the MIB **PCF** file

- Definition of telemetry packets is depicted in Figure 6.

```
tpcf.dat
24500    PKT001   26
24501    PKT003   22
24502    PKT004   22
```

Figure 6: Illustration of the content of the MIB **TPCF** file