

RPW TDS flight software update status

Progress meeting, February 10, 2021

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Planning and resources

□ Work progress

- We started to work test detection algorithms modifications on the existing database of TDS data.
 - Immunity to 120 kHz interference requires a modified triggering algorithm working in spectral domain.
 - This will be implemented in parallel with the existing one.
 - Dust statistics to be improved.
- On TC/TM packet level, we will modify the meaning of some TM/TC parameters, but we will preserve data structure and size.
 - Some new values for the ENUMs need to be defined and parameter ranges changed. We hope this is OK.

□ Funding & manpower:

- No specific funding needed.
- Done by the original TDS SW development team (Ludek and myself)

□ Schedule:

- We still hope to complete the coding in April/May time frame.