



SIROM



News Article on SIROM Project Management Meeting 6

Xiu Yan 5th Oct 2018

SIROM Project Management Meeting 6 (PM6) is the TRR meeting and was held at Airbus Bremen, on the 1st and 2nd of October 2018. PM6 was held successfully to review TRR documentation, project progress over last quarter in terms of manufacturing, prototyping and assemblies of expected SIROMs.

The meeting was attended by representatives from 7 project partners as well as the project officers from Programme Support Activity (PSA) of the Strategic Research Cluster in Space Robotics Technologies of Horizon 2020 programme of the European Commission. Colleagues from Leonardo attended the meeting via teleconference.



Photo 1. Meeting photo of all attendees of the PM6 meeting in Airbus, Bremen

After the host welcomed all the partners' representatives, the meeting started with the following agenda:

1st Oct

13:00-13:30 Welcome and sandwich lunch

- 13:30-18:00
- Review of last meeting minutes
 - TRR documentation
 - Progress review of hardware status and issues identification
 - Manufacturing and purchasing progress review
 - EIS hardware review
 - SIROM Controller review
 - SIROM Orbital test preparation and planning;
 - SIROM planetary test preparation and planning
 - Agreed an action plan for each partners to deliver critical parts and assemblies for both planetary and orbital testing;

2nd Oct

- 9:00- 12:00
- TRR meeting continuation;
 - Planning of the test campaign;
 - Visit of AIRBUS robotic laboratory.

Overall, Dr. Daniel Noelke from PSA is happy with the TRR documentations and happy with the project progress. The meeting went to JIRA directly and went through the documentation.

Colleagues from MAGSOAR presented the thermal test set-ups for both high and lower power interfaces. They were accepted by PSA and it is anticipated the tests will produce results on thermal performance of SIROM and it was agreed to explore the possibilities of using these results along with simulation results for a journal paper publication.

Questions on SIROM controller was discussed in terms of radiation hardness of electronic controller. It is suggested that a plan should be in place to state how the controller's electronics will be further developed from current TRL 3 to future ones with capability to be used for space radiation environment.

It was suggested to ask for an extension in case there is a need for some buffers for the activities planned.

It is requested to show the exploitation plan, especially the commercial exploitation plan for the thermal design and testing. It is also suggested the SIROM controller is a relatively stand-alone development and has potential to be developed as a commercial system. Hence it is suggested to develop a commercialisation plan for the SIROM controller too.

Partner from Strathclyde University proposed to run Mechatronics 2018: Reinventing Mechatronics accepted about 40 papers for the three-day conference and it was attended by around 60 delegates for three-day conference. Delegates are from Europe, USA, China, South Korea, and middle east. One e-book entitled REINVENTING MECHATRONICS Proceedings of MECHATRONICS 2018 with an ISBN number: 978-1-909522-37-4 (e-Book) was published. Another book is to be published by Springer based on selected papers with extended and new materials in 2019.

The main outcome of the meeting was an agreed action plan for the final phase to prepare for testing, based on the review of the work undertaken by all partners who manufactured SIROM parts and assembled them for testing. A test plan is agreed.

A partially assembled SIROM was discussed and can be seen below which can be controlled to perform closing and opening operations successfully.

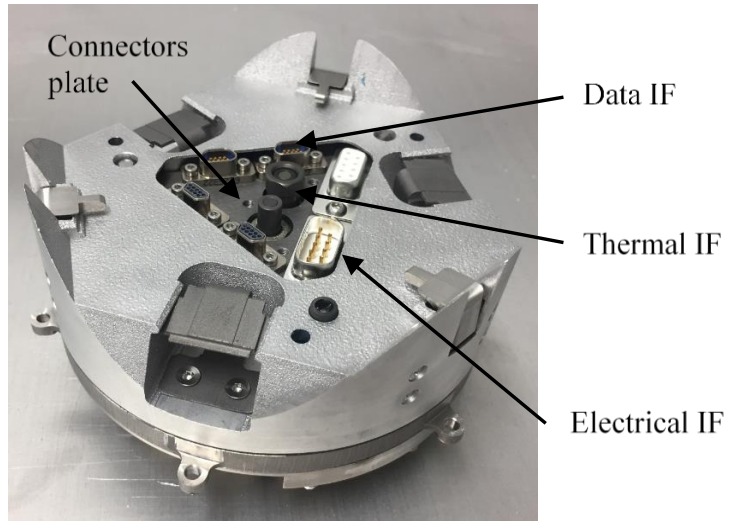


Figure 2 The first functional SIROM Prototype

Finally a visit was performed to AIRBUS laboratory facilities. The consortium thanks to AIRBUS for the meeting and visit organization.



Figure 3 Visit to AIRBUS laboratory