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EGSE – Test OBSM Statement of Work

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	Name	Function	Date	Signature
Prepared by	E. Wiezorrek			
Checked by				
Approved by	R. Katterloher	SE		
Authorized by	O.H. Bauer	PM		


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DOCUMENT CHANGE RECORD

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1 Scope of Work

The On-Board Software Management (OBSM) facility is the framework, which is used to manage, and uplink the on-board software images of the Herschel instruments via SCOS 2000.

Input for OBSM shall be Virtuoso on-board software image files. Output shall be the proper PUS uplink packets.

The verification of uploaded memory images via memory dumps and checksums shall be supported as well.

The on-board software development and maintenance is covered by a different work package.

2 Specification

2.1 On-board program memory image file handling

Requ.-ID	Description
OBSM-OMF-01	There shall be a utility to convert on-board memory image files generated by VIRTUOSO to a file format, which can be read by the SCOS 2000 OBSM facility.


2.2 SCOS 2000 [customization](#)

Requ.-ID	Description
OBSM-S2K-01	SCOS 2000 shall generate the proper uplink packets following the PS-ICD to allow uploading of the memory image files.
OBSM-S2K-02	SCOS 2000 shall store uplinked memory image files as reference images.
OBSM-S2K-03	SCOS 2000 shall ingest download packets containing memory dumps.
OBSM-S2K-04	SCOS 2000 shall store downloaded memory images.
OBSM-S2K-05	SCOS 2000 shall support comparison between downloaded memory images with reference images.
OBSM-S2K-06	SCOS 2000 shall support verifications of memory image checksums.

3 Deliveries

3.1 Schedule

TBW

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3.2 Deliverable Items

Deliverable items are:

- Statement of work (includes software specification)
- Software
 - SCOS 2000 [customization](#)
 - Application to convert VIRTUOSO memory images to SCOS 2000 format
- Design document
- User manual (includes installation)
- Test plan and test report

4 Management

4.1 Reports

Reports will be given on the regular EGSE working group meetings.

4.2 Meetings

There will be no special OBSM meetings. Any open issues are either discussed via email or during the regular EGSE working group meetings.