

SOFTWARE VALIDATION FACILITIES

Software Validation Facilities comprise facilities to examine software execution in its target processor environment. The activities include features to support debugging and analysis of software performance. Software Validation Facilities are especially developed to support independent validation of embedded software.

Introduction Benefits Functionality

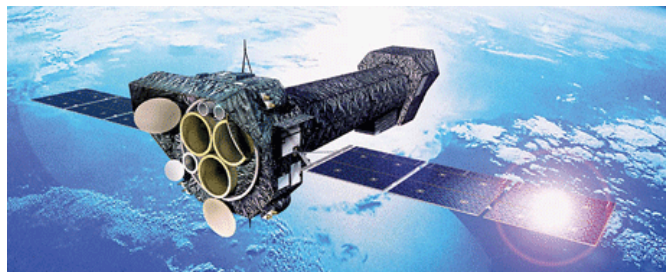
The independent validation and certification process of software requires elaborate facilities to examine the software execution in its target processor environment. The aim is to ensure that software performance will not lead to unacceptable system behavior in terms of mission criticality.

Within Terma's Software Validation Facilities, it is possible to test the robustness of flight software in scenarios that would be costly or potentially dangerous as part of an exhaustive test program.

For these purposes, Terma has developed and used Software Validation Facilities (SVFs) for a range of satellite projects.

Terma has provided SVFs to a variety of ESA missions, including:

- Herschel/Planck
- Mars Express
- XMM
- Integral
- Rosetta
- Metop
- Envisat.



XMM (image courtesy: ESA)

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