

AOCS Unit Simulation Models

M. Pigg, Tessella

ESA are currently funding a study aimed at prototyping several AOCS sensor and actuator models to be used for AOCS performance analysis and validation on a range of test environments, including Avionics test benches. The development of such models offers the potential for reductions in V&V effort through the reuse of validated unit models throughout the V&V lifecycle, and across the European AOCS community.

A consortium, led by Tessella, including Thales Alenia Space and EADS Astrium, is working together to develop these generic models for specified units, ensuring that the development guidelines are specified in order to meet the needs of the AOCS community, and that the models are validated against real hardware.