

# Catalogue of System and Software Properties



## Objective:

- to exhaustively investigate, elaborate, and systematize the **properties** to be used for **early Verification & Validation** activities in the context of Model Driven Engineering paradigm
- to provide a **systematic approach** to properties derivation, specification, and flow-down through the System, Avionics, and Software domains, and across the phases of the Software System Development Lifecycle, and
- to define consistent minimal set of technologies (formalisms, languages, tools) to provide a cohesive **environment for the properties specification and the corresponding verification activities.**

Budget: 250 kEUR

Duration: 18 month

Program: TRP



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Two activities have been run on parallel:

**CSSP:** Aristotle University of Thessaloniki (AUP)  
École Polytechnique Fédérale de Lausanne (EPFL)  
Thales Alenia Space France (TAS-F)

*Focus:* Use of Ontology and boilerplates for requirements and property verification using BIP

**CATSY:** Space Systems Finland (SSF)  
Fondazione Bruno Kessler (FBK)  
RWTH Aachen University

*Focus:* Requirement categorization and property verification using integrated COMPASS toolset

