

SimTG: Successful Harmonization of Simulation Infrastructures

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Over the past years Astrium Satellites went through the merger of several companies to a single company. This consolidation process included the harmonisation of tools and processes across countries.

A crucial element in this, was the harmonization of the existing simulation existing in Toulouse and Friedrichshafen, while the simulation based functional verification process is de-facto standard within Astrium.

At the last SESP the rationale and objective of SimTG was presented. This covered more the planning and the decision making process including the make or buy decision.

As of today the harmonization process of SimTG is completed. There is only one simulation infrastructure for S/C system simulation existing, all sources are commonly shared. A joint team is in charge of the maintenance and development. The presentation will cover the following aspects of SimTG:

- Outline of the technical approach on the SimTG harmonization.
- Overview on the different building blocks SimTG consists of including simulation Kernel, simulation MMI, processor emulators, generic bus models and simulation data base.
- The modular approach for the simulation model structure as a key item for model re-use along the system life-cycle.
- Outline of the compliance level with regard to SMP2 and the benefits of this compliance approach to ease the harmonisation process.
- Description of the future plans for the SimTG evolution, in particular the consideration of the different HITL simulation platforms and the SimTG modelling tool.