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When

Wednesday June 17th 2020 from 11am-12pm EDT (3pm – 4pm UTC)

Topic

SE Driven Modelling & Simulation Method; a Paradigm Shift in Digital System Development

Speaker

Pascal Paper

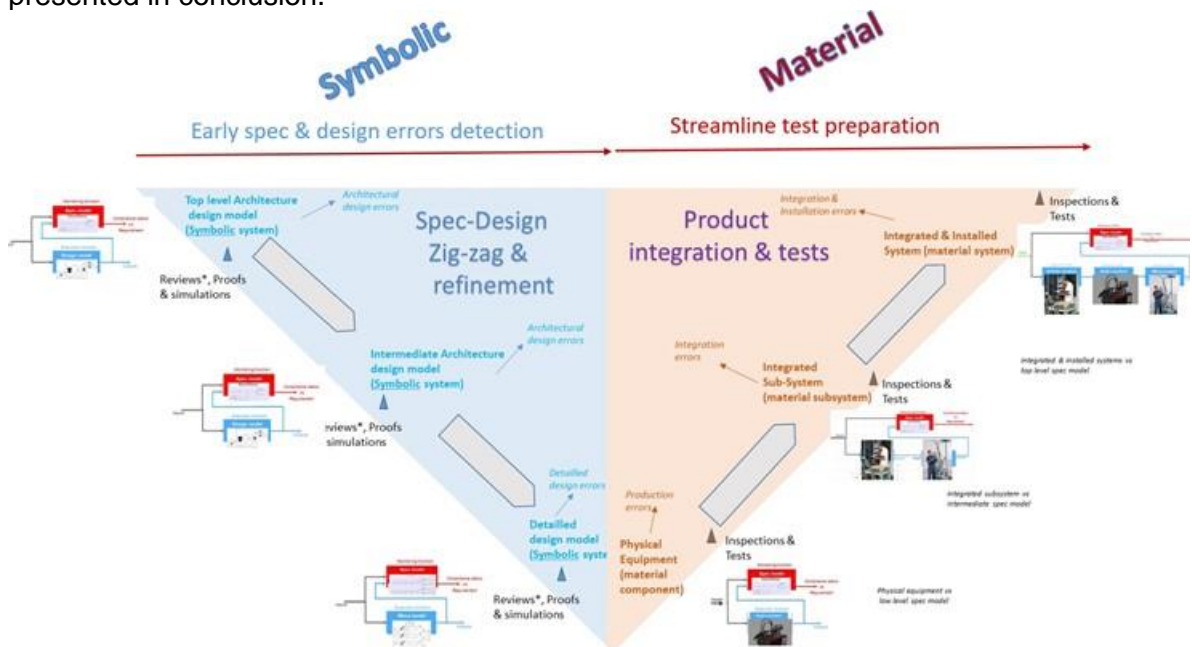


Abstract

This presentation is highlighting an innovative Modelling & Simulation method. This tool & language agnostic method fosters an effective preventive approach in the end2end system development cycle (ie: system specification, design and physical test and integration). This preventive improvement is emerging from a sound integration of Modelling & Simulation means with key System Engineering and APR4754A principles (ie: Requirement Validation, Design verification & implemented product verification).

Based on 3 years operational pilots on landing gear system and fuel functions in AIRBUS HELICOPTERS, several benefits were observed. Firstly, the quantity of requirements is reduced by around 50 % and more importantly, the quality of the system specification and its refinement at lower levels is drastically improved in term of right first time completeness, correctness and coherency leading to reduction of late design reworks. In addition, significant test preparation time is reduced by avoiding error prone test programming tasks which are replaced by specification and test scenario models plugged and run on system test benches. At last, when new program fuel study launched, significant generic requirement and design models can be reused and quite easily tailored in the new modelling development context so fostering cost and lead-time reduction compared to the first development occurrence.

After having presenting the main principles and process steps of this emerging method, an overview will be shown on the current footprint of this method. Finally, main next steps in the development & integration of this emerging method will be presented in conclusion.



Biography

Pascal Paper: As part of AIRBUS-Helicopters M&T and now within DDMS Modelling & Simulation stream, the presenter is promoting Modeling & Simulation best practices to bring strong efficiency benefits to system designers. In particular, he is leading an engineering transformation project relying on the Modeling & Simulation SE driven method: PMM®.

Previously, he was Head of Multi-System Physical Integration department, accountable for the physical aircraft multi-System architectures tradeoff and 3D equipment models process management.

Earlier in his career, he has been in different leadership positions in AIRBUS Aircraft (Head of A400M ACE deployment, Head of Lofting), in AIRBUS Space (Head of ARIANE 5 configured DMU & CATIA methods & support) and in DASSAULT-AVIATION (CATIA development and support, Radar Cross Section 3D computation PhD).

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Regards,

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