

NAFEMS UK Regional Conference 2018 - Abstract Submission

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Please identify the event for which your submitting?	NAFEMS UK Conference 2018
Will you be the presenting author?	Yes
Presentation Title	Platform Led Requirement Driven Simulation
Relevant Themes / Keywords	Platform, Requirement, Test, Simulation, Data, Management, Execution

Abstract (plain text)

Why do we do Simulation? The simple answer is to satisfy business and product requirements.

There must be a reason to perform a piece of simulation; an employee does not come to work and simply decide to run an arbitrary piece of analysis; the analysis is driven by requirements.

One aim of simulation is to determine whether or not a part or system is safe and fit for purpose. Governing these aspects is usually a set of requirements that define how a product or system should perform for its intended use cases.

Adopting platform led requirement driven simulation allows businesses to fully track the development state of products from conception to market all on a single system. It allows simulations to be driven by requirement based parameters and to allow for the simulation to return parameter values against the driving requirement. Crucially this methodology keeps a full record of all simulations performed, their parameters and whether or not these result in a pass or fail the initial requirement criteria.

Through the use of requirement driven simulation businesses are able to ensure that their products or systems are at specification when they go to market. The platform ensures that all the material and learning related to requirements and simulations, in the context of a product or system is recorded. Lots can be learnt from Simulations that don't meet the requirement criteria and reviews of these can aid the future design of simulation workflows or indeed the specification of the requirements themselves.

This paper outlines the benefits of platform led requirement driven simulation using the Dassault Systemes 3DEXPERIENCE Platform, the SIMULIA Process Apps and the ENOVIA Traceable Requirement Management app. Worked examples will be utilised to demonstrate how Requirements, Test Cases and Test Executions can be used on the platform to drive and review simulation process workflows.

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