

48th SYMPOSIUM ON SAFETY, QUALITY AND KNOWLEDGE MANAGEMENT IN SPACE
ACTIVITIES (D5)
Interactive Presentations (IP)

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CREATING A RISK-AWARE CULTURE AS A MAJOR DRIVER FOR SYSTEM VERIFICATION

Abstract

Creating a risk-aware culture requires a deliberate approach. It will not happen by accident. The risk management function bears some of the responsibility for developing an appropriate risk-aware culture within an organization. Culture is not merely an intangible concept – its elements can be defined and progress in moving toward a desired culture can be measured. Information, technical skills, and processes are important, and some processes are necessary to assist in developing an appropriate culture. However, an organization could possess world-class technical capabilities and strong processes for assembling, integration and tests (AIT), but still have a bankrupt culture so that no value was added through risk management efforts. Managing risks are crucial to ensure the success of a project. The whole cycle of risk management does not stop when a risk is accepted. Risks are unavoidable and a system integration testing can be a daunting task. High-level requirements need to be validated; the test bench used for verification is often a complex combination of bespoke test tools and real equipment, and system integration is always at a time when the pressure is high: many teams are involved, time is short, and the price of an anomaly is generally high. Add to this the different contractors working together, each with their own contract and it can become very hard to identify the root cause of an anomaly found during integration testing. The subject of this paper is to outline how to create a risk aware culture in order to have a good risk-based decision-making during AIT phase and what is the impact of the test bench preparation on system test accuracy.