Process Development and Configuration Management for Aerospace Projects

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Abstract

The advancement of computational technology and the use of embedded software have made the systems more complex and highly integrated this due to the large number of functionalities delivered and their applications in the most diverse areas, which includes: control aerospace vehicles such as satellites, rockets, aircraft, telemetry and remote control, etc. On the other hand, this complexity demands a robust development process, in which it is essential to version the work products and, especially, to control the changes in these products. In this way, investing and maintaining efficient configuration management should contribute to a successful and less error prone project, both in the phases of the development cycle and throughout the manufacturing process. Therefore, considering this context, I will present some steps to maintain an effective control of the configuration of a complex project, based on a method applied in the aerospace industry, which establishes key activities for the control of artifact baselines, requirements management, maintaining the product structure and delivering software releases and hardware versions. We will also deal with the concepts of configuration identification, configuration item, baseline, change management, document workflow and configuration control board, in addition to presenting some tools that will facilitate the implementation of efficient configuration management focused on complex aerospace systems.

Biography:

Danilo Graca has a master's degree in space management and technology from the Brazilian National Space Research Institute, has more than 8 years of experience in the aerospace industry, working with process management for the development of aerospace systems. Currently, he works with projects and processes at IACIT Soluções Tecnológicas S / A, a Brazilian company with technological expertise in development of products and systems applied to the Defense and Public Security, Air and Maritime Traffic, Control and Navigation (CNS / ATM), Meteorology and Telemetry. Its headquarters strategically located in São José dos Campos city - major center of aerospace of Brazil.

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