

ACHIEVE YOUR DIGITAL TRANSFORMATION WITH A HIGHLY SUSTAINABLE PROCESS



CHALLENGE

- Difficulty to track and integrate business objects all along the design flow
- Hard to collaborate efficiently without a proper platform and referential
- Seamless access to knowledge and information
- Data driven decision making
- Lack of unified framework and tools to describe hardware and software components used by electronic system providers

BENEFITS

- A fully-integrated process which enables to align Specification, Design and Documentation stakeholders
- Non-intrusive implementation
- Based on Industries standards (IP-XACT, [More...])

SOLUTIONS

- A single hub of links and an environment to debug, monitor and analyze features in a collaborative way.
- Bottom-up and top-down descriptions from system design to SoC implementation.
- Calculation of change impact and change management facilities. [More...]

RELATED RESOURCES

- Magillem Vision
- Video Magillem Symphony [More...]

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FOR MORE INFORMATION

Capitalizing on years of experience integrating IP blocks in the semiconductor assembly platforms, Magillem now deploys its solution towards system integrators.

Until now, no real-time tracking solution for production flows was available on the market. Thanks to the IP-XACT / IEEE 1685 standard, which provides a detailed description of all components and tools used in the production chain, Magillem provides system providers a seamless way to integrate business objects all along their production flow to form a fully-connected information backbone.

Data specific to tools and components are incorporated as metadata in the IEEE specifications open standard. This solution represents a breakthrough in the management of the electronic workflows as it allows system providers to manage their design flow independently from proprietary formats attached to the tools used in the flow. Descriptions can be provided in the following technical domains: mechanics, mechatronics, electronics, and software.

Moreover, this standard-based, global approach is a powerful cost saver as it increases the modularity and reliability of the system, thus facilitating the design and requirements review process. Magillem offering can now be combined with a CMI model for the electronics project, as well as other industry methodologies like V Cycle, Agile, ... Data evolve, are controlled and processed across different tools all along the information backbone, like a stick in a relay race.

Traceability and certification are enabled using a powerful hub of link and a dedicated trace framework which relate heterogeneous pieces of information and trace components from initial customer requirements to the final stage of implementation. Certification is facilitated, much less error-prone, time consuming and costly thanks to the capability to automate link setting across resources and milestones.

Obsolescence management of hardware and software components of an equipment is another big pain point. The challenge is to reconcile a shorter and shorter component life – less than 4 years in average – with the maintenance of an electronics system which exceeds 10 years. The same applies to software modules, which are very difficult to maintain over the long term. Being able to manage the legacy reuse, the refit and repurpose of information is now possible with Magillem platforms.