CATIA Magic

Model-Based Systems Engineering Tools

The acquisition of No Magic, now known as CATIA Magic, reinforces Dassault Systèmes' Industry Solutions leadership. When combined with the 3DEXPERIENCE digital platform the No Magic solutions provide a best-in-class Model-based System Engineering and System of Systems Engineering Solution and Offering.

Accelerate your digital transformation with CATIA Magic and 3DEXPERIENCE – the most robust and standards-compliant solutions in the market.

Improved Concept Clarity

Improved ability to teach and learn systems engineering by providing a clear representation of the concepts.

Improved Product Quality

Improved product quality by providing an unambiguous and precise model of the system that can be evaluated for consistency, correctness, and completeness.

Increased Ability to Manage System Complexity

Increased ability to manage system complexity by enabling a system model to be viewed from multiple perspectives and to analyse the impact of changes

Reduced Time and Costs

Enhanced knowledge capture and reuse of the information by capturing information in more standardized ways and leveraging built-in abstraction mechanisms inherent in model driven approaches. This in turn can result in reduced cycle time and lower maintenance costs to modify the design.
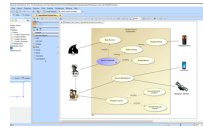
CATIA Magic Products

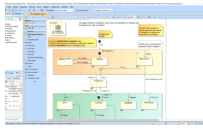## Simplify complexity with the CATIA magic portfolio suite

Magic Systems of Systems Architect

The 'Magic Systems of Systems Architect' product offers the most robust standards compliant solution supporting all the architectural frameworks including DoDAF, MODAF,NAF etc.
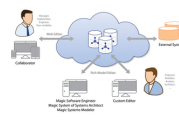
Magic Cyber-Systems Engineer

The 'Magic Cyber-Systems Engineer' product is an industry leading cross-platform collaborative Model-Based Systems Engineering (MBSE) environment.

Magic Software Architect

The 'Magic Software Architect' product is an industry leading, cross-platform, collaborative software architecture engineering product, which provides smart, robust, and intuitive tools to define, track, and visualize all aspects of software and related system architecture using the most standard-compliant UML models and diagrams
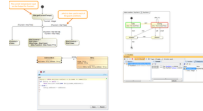
Magic Collaboration Studio

The 'Magic Collaboration Studio' product is for collaborative development and version model storage for large volume of data. It is architected to provide state-of-the-art model-governance (merging, branching, access control with secured connection), model analysis and integration with third-party tools
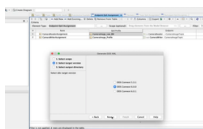
Magic Model Analyst

The Magic Model Analyst product provides the first in the industry extendable model execution framework based on OMG fUML and W3C SCXML standards. It is used to validate system behavior by executing, animating, and debugging models in the context of representative mock-ups of the intended user interface.

Magic Alf Analyst

Alf (the Action Language for Foundation UML) is a textual language for coding detailed, executable behavior within an overall UML model.

Magic Real-Time Communication Designer

The 'Magic Real - Time Communications Designer' provides a direct integration to RTI Connext. Engineers can go directly from the system model in SysML to RTI Connext for implementation and deployment of a distributed system.

Cyber Security Roles

A model-based security assessment in the context of systems architecture design, compliant to ISO 26262, SO21434and RAAML, in order to support cybersecurity goals and requirements identification. The 'Cyber Systems Engineer and Systems Cybersecurity Designer 'products connect the dots between systems engineering, safety and cybersecurity teams.

Users in Australia

CATIA Magic is being utilised by industry leaders including

SABER ASTRONAUTICS — Australian Government Department of Defence — Energy Catalyst — SYSTRA — SHOAL — SKAO — Nova Systems

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About MEMKO Systems

For further information, please contact us:

📍 Level 28, 303 Collins St, Melbourne, VIC

📞 +61 3 8605 7777

✉ info@memko.com.au

🌐 memko.com.au

MEMKO Systems is an Australian-based company with multidisciplinary engineering capabilities supported by highly experienced and skilled staff with an extensive track record working with global OEMs, Defence Primes, and Government Agencies. MEMKO Systems delivers advanced manufacturing solutions, digital transformation technologies and industry upskilling training. Quality management system is ISO9001 and ISO27001:2013

Capability Areas

Capability	
Analysis, Modelling & Simulation	✓
Digital Twin & MBSE as a Service	✓
Design & Engineering	✓
Infrastructure as a Service	✓
Deployment, Support and Upgrade Services	✓
Training Courses	✓