

Today's Systems are complex.

We believe that systems thinking and Architecture-Driven Engineering are crucial to addressing the complexities of today's challenges.

Enabling your journey from concept to capability

GENESYS supports you from first statement of need to final verification and validation. Engineer successful outcomes with a solution that supports agility, enterprise-wide collaboration, scalability, and customization. Do it all with ease, in a robust environment designed by systems engineers for systems engineers. The software is designed, developed, and supported in the USA.



Key Benefits

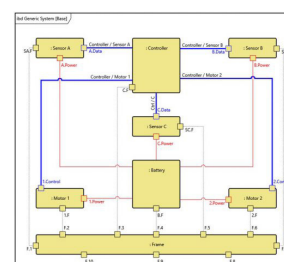
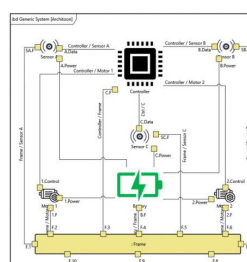
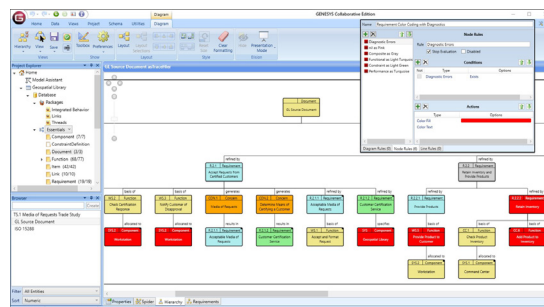
- GENESYS enforces coherent, consistent, and complete system designs. Every time.
- Best-in-class authoring capabilities combining automatic diagram generation and rule-based formatting make GENESYS the most efficient way to build and maintain models.
- Executable models validate logical consistency, performance, and eliminate resource contention.
- The software has an extensible schema and an open API that enable customization and integration.
- GENESYS is built on standard technologies and features conformance to SysML and DoDAF.
- Additional capabilities and views beyond SysML provide more complete system understanding.
- Bundled interfaces to common programs such as Excel and DOORS increase effectiveness.

As system and product complexity increases, how you manage that complexity has a direct impact on whether you achieve the desired outcomes.

Engineer confidently using the industry's only Model-Based Systems Engineering (MBSE) tool built with a semantically rich, natural language metamodel, ensuring your architecture and all associated views are complete, consistent, and coherent.

Engineer collaboratively in a real-time environment from a single source of truth, bringing together all stakeholders with the latest information, accelerating the design process, and eliminating errors.

Engineer comprehensively with an integrated platform that includes everything you need to introduce and deploy MBSE in your organization. Connect the enterprise with ease and bring data from existing requirements or productivity applications into your models for enhanced analysis and improved communication.



Features and Capabilities

Authoring

- Enforces underlying metamodel
- Drag-and-drop
- Automatic layout
- Element styling
- Element sizing/spacing/aligning
- Automatic diagram generation
- Element display/hide
- Rule-based formatting

Advanced Modeling Features

- Semantically rich SE metamodel
- Diagram/View consistency
- Model versioning/aggregation
- Numbering mechanism
- Element/data classification
- Advanced querying
- Impact analysis
- Entity Inheritance

Bundled Integrations

- MS Word, Excel, Powerpoint
- MS Project
- DOORS
- MATLAB
- Simulink
- Phoenix ModelCenter
- Open API
- OSLC

Analysis and Simulation

- Model validation
- Logical consistency validation
- Timing and resource contention
- Animation of simulation
- Safety and reliability

Reports and Scripting

- Pre-defined reports and scripts
- Custom scripts
- Open reporting engine
- Report wizard
- DOC/PDF/HTML output

System Requirements

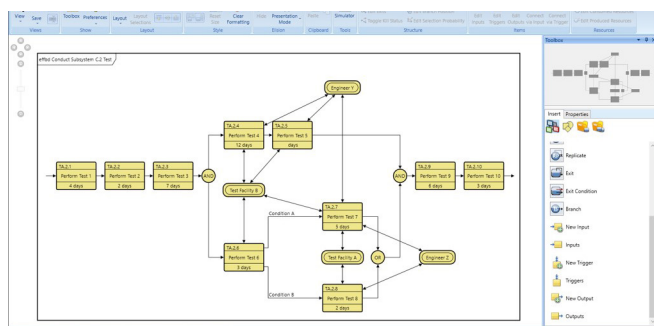
- Windows 10, Windows 8, Windows 7
- Windows Server 2019, Windows Server 2016, Windows Server 2012
- 8 GB RAM (Server operating systems may require more)

Supported Views

- SysML
- Hierarchy, N2
- Spider
- IDEFO, EFFBD
- DoDAF

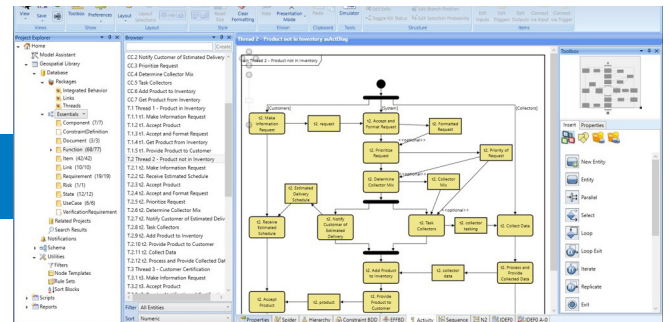
Collaboration

- Real-time
- Lock-free editing
- Integrated workgroup repository
- Enterprise repository option



Import, define, and analyze requirements with full traceability

Specify and validate behaviors



Define the design envelope, maintain architectural consistency, and link to analytical tools

Requirement	Documented Entity	Parameter Type	Unit	Value	Verifiability	Design Integrity Errors
R.1.1 Customer Support and Availability	n					
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R.1.1.1.1 Availability	n					
R.1.1.1.1.1 Acceptable Means of Response	n					
R.1.1.1.1.1.1 Customer Certification	n					
R.1.1.1.1.1.1.1 Retain Inventory	n					
R.1.1.1.1.1.1.1.1 Control Multiple Fulfiller Types	n					
R.1.1.1.1.1.1.1.1.1 Minimum Staff	n					
R.1.1.1.1.1.1.1.1.1.1.1 Provision Requests	n					