

Today's Systems are Complex

Systems Thinking and Architecture-Driven Engineering are crucial to addressing the complexities of today's challenges



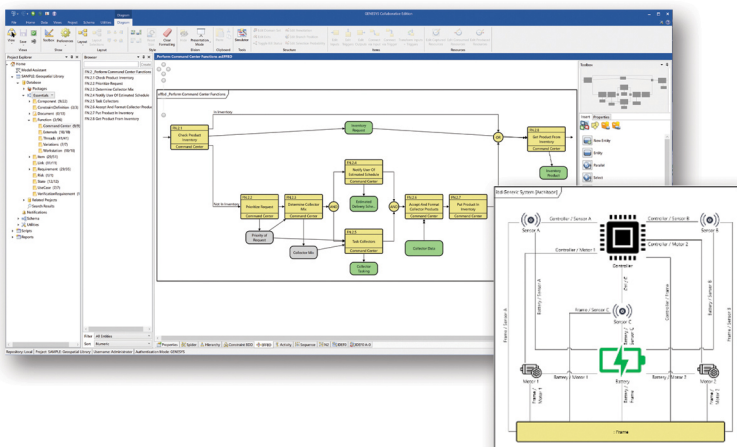
Enable Your Journey from Concept to Capability

GENESYS empowers you to engineer successful outcomes through the entire product lifecycle from the first capture of need through verification and validation, operations, maintenance, and retirement.

- Manage complexity with agility
- Enable enterprise-wide collaboration and customization
- Integrate models and dynamic visual representations
- Improve communications and understanding
- Reduce defects and timelines

As system and product complexity increases, managing that complexity determines the outcomes

- Design your product or services architecture and all associated views and viewpoints with confidence. GENESYS is the industry's only systems engineering modeling platform that is built upon the **Systems Definition Language (SDL)**. SDL conforms to the Systems Modeling Language (SysML) standard and provides the additional benefits of semantic precision and natural language interpretability due to its ontological foundations. This ensures your architectures are complete, consistent, coherent, and comprehensible across all layers of the design.
- Collaborate 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.
- Introduce and deploy MBSE in a comprehensive, integrated platform. Connect the enterprise quickly and bring data from existing requirements or productivity applications into your models for enhanced analysis and improved communication.





Features and Capabilities

Advanced Modeling Features

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

Analysis and Simulation

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

Authoring

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

Bundled Integrations

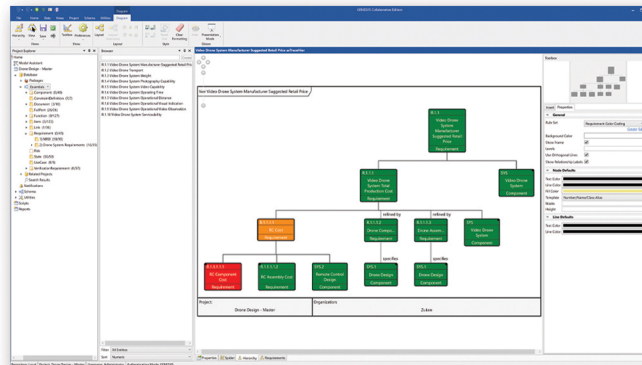
- MS Word, Microsoft® Excel, Powerpoint, Project
- DOORS®
- MATLAB®/Simulink®
- Ansys ModelCenter®
- Open API and REST API
- OSLC

Collaboration

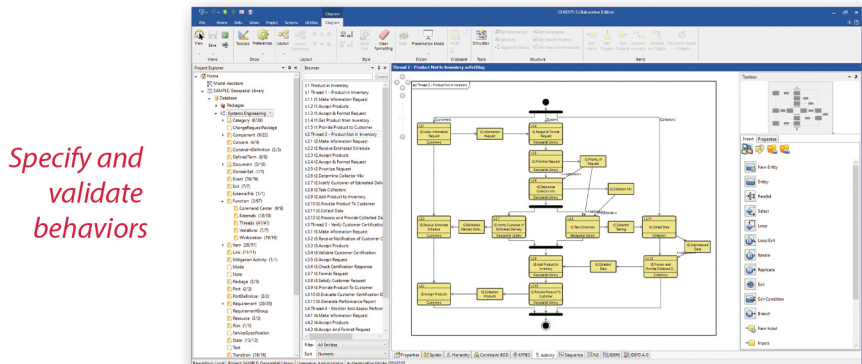
- Real-time
- Lock-free editing
- Integrated workgroup repository
- Enterprise repository option

Supported Views

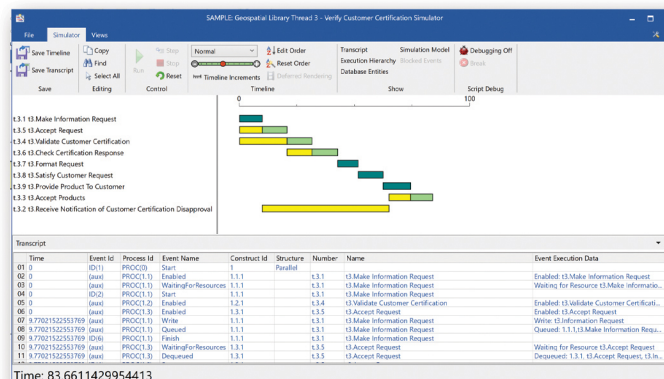
- SysML • Hierarchy, N2 • Spider
- IDEF0, EFFBD • DoDAF



Import, define, and analyze requirements with full traceability



Specify and validate behaviors



Define the design envelope, maintain architectural consistency, and run internal or external analysis

Reports & Scripting

- Pre-defined reports and scripts
- Custom scripts
- Open reporting engine
- Report wizard
- DOC/PDF/HTML output
- VB.Net • C#

System Requirements

- Windows 11, Windows 10
- Windows Server 2022, Windows Server 2019, Windows Server 2016, Windows Server 2012
- 8 GB RAM
- (Server operating systems may require more)