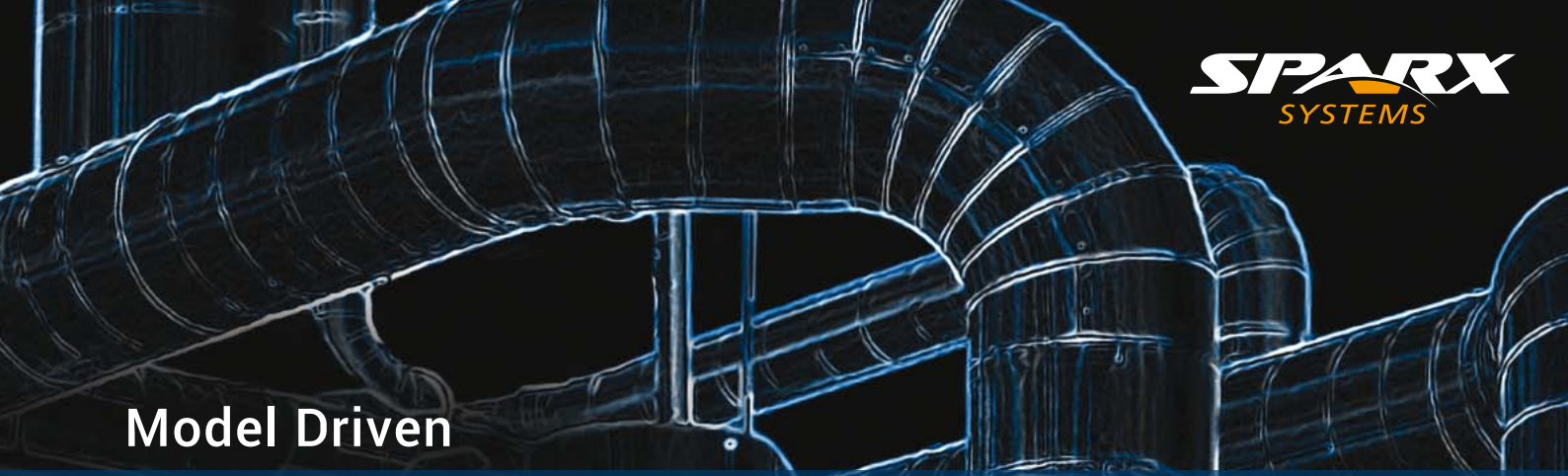
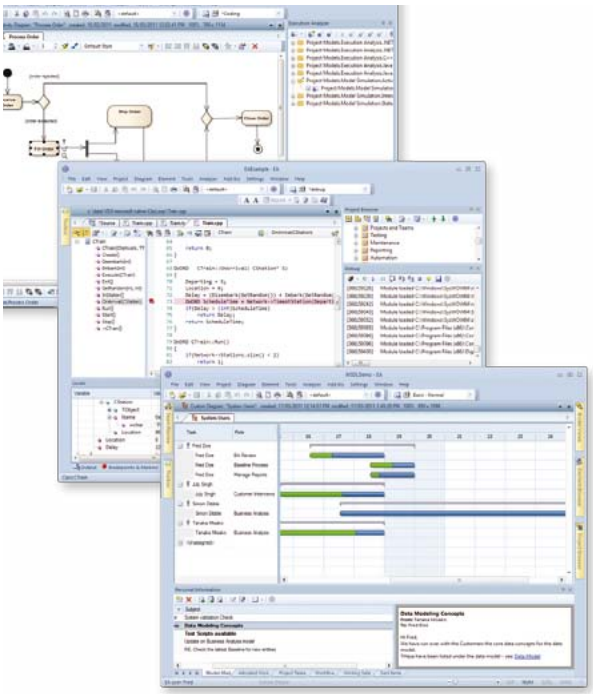


Model Driven

Systems Design

Advanced Team-Driven Systems Engineering



Take control of your projects!

Proven tools to visualize, create and plan. Guide your vision from concept to design, build, delivery and beyond.

A scalable and multi-user, domain-specific modeling platform. Couple with technologies like SysML and DDS; Enterprise Architect is the complete systems modeling environment.

ENTERPRISE ARCHITECT

Think it Through

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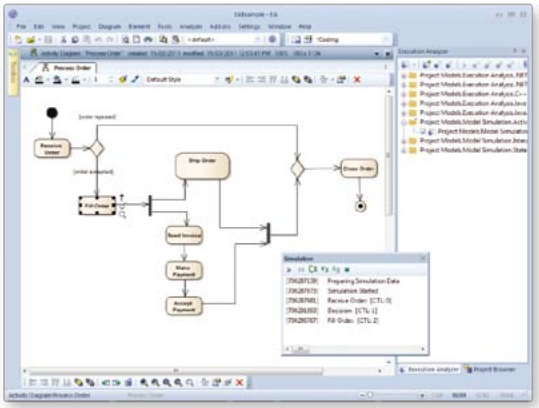
SysML **DDS** **UML** **UPDM**

For more information see: www.sparxsystems.com/systems

ENTERPRISE ARCHITECT

Collaborative tools for Model-Based Systems Engineering

Modeling Technologies



SysML

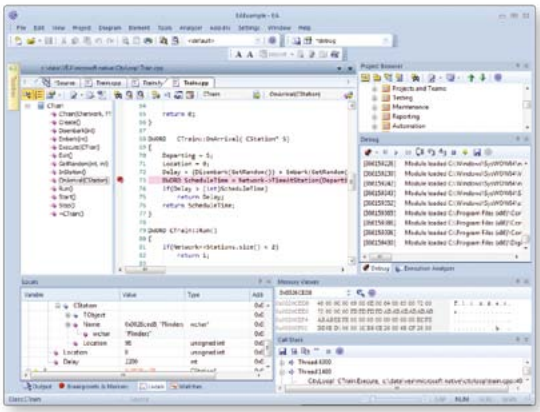
- Specify system requirements, design deeply-nested structures of systems using blocks and block diagrams.
- Analyze system-to-system behavior using Interaction Diagrams, Activity Diagrams and State Charts.

Simulation

- Define system dynamics and enforce correctness with parametric and constraint blocks.
- Includes support for simulating constraint models with results graphing capabilities. Simulate the behavior of Activity, State, Business Process, User Interface and Interaction Models.
- Verify system behavior, manage complexity, control execution and understand complex systems.

DDS

- Specify Data-Centric Publishers, Subscribers, Topics and QoS Policies.
- Define Data Local Reconstruction mappings for effective DDS data access.
- Create heterogeneous DDS applications across different host environments.



Development Tools

UML Modeling

- Drive rapid downstream development with automatic test generation and Structured Scenarios with automatic Activity diagram creation.
- All 14 UML 2.4.1 diagrams supported!
- Generate functional code directly from UML State, Activity and Interaction models.

Scripting and Automation

- Take control with Enterprise Architect scripts in JavaScript, JScript and VBScript to handle time consuming and repetitive GUI tasks.
- Extend the core toolset and take advantage of Enterprise Architect's repository with it's powerful Automation Interface.

Visualize, Validate, Debug & Profile

- Better understand the workings of your software with the Visual Execution Analyzer.
- Define Test Points using Programming by Contract principles.

Tools to Take Control

Manage

- Manage your teams, workload, projects and requirements from the one platform.
- Streamline your projects with version control and model security.

Reporting

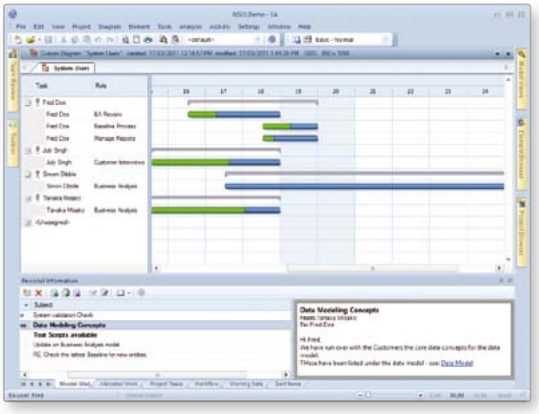
- Deliver a consistent message with built in RTF, HTML and PDF documentation.
- Use model documents, custom reporting and report templates for consistent, up to the second project reporting.

Testing and Quality Control

- Employ auditing, baseline comparison, issue, bug and change tracking to help you meet and exceed project requirements and quality levels.

Glossary

- Keep everyone on the same page with the powerful integrated project glossary!



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