

# ARIS Simulation

**Analyze and improve  
processes**



Where do process bottlenecks occur? What are process weaknesses? Which process variants work best? Take the guesswork out of making process improvements and reduce risks.

ARIS Simulation is a tool that lets you realistically simulate and dynamically analyze business processes. Fully integrated with ARIS Architect, ARIS Simulation helps you identify the best strategies to improve your processes—before you make costly changes.

## Key benefits

- Discover process weaknesses and bottlenecks
- Identify best practices in your processes
- Test to determine whether new processes are executable and efficient
- Optimize throughput times and resource utilization
- Determine resource requirements, utilization levels and costs relating to workflows
- Review organizational decisions before implementing them
- Analyze potential process risks
- Establish enterprise-wide benchmarks
- Plan levels of support and resources needed for deployment
- Streamline your work with full integration with ARIS Architect

ARIS Simulation is ideal for re-engineering, optimizing and analyzing processes, benchmarking and resource planning. You can identify process modeling errors, inefficiencies and weaknesses using a wide range of analyses.

## Key features

### Interactive process simulation

See at-a-glance overviews of simulated models, simulation status and evaluations in the form of statistical tables and diagrams. Manage simulation runs via a toolbar, a menu or a simple keystroke.

You can start, pause and stop simulation runs, regulate process speed and execute the simulation step-by-step. While the simulation is running, you can animate model objects and see the resulting attributes, which are updated continuously for each object.

### L-Sim® simulation engine

ARIS Simulation deploys the L-Sim simulation engine from the Lanner Group, a leading provider of simulation software. The extension pack for ARIS Simulation is fully integrated with ARIS Architect. No additional software is required, and there are no imports or exports.

### Extensive data collection

Collect a wealth of statistics during a simulation, and then use these stats to address your analysis needs. For example:

- Function stats tell you the number of executions and dynamic wait times
- Process stats display the number of completed process instances and throughput times

### Easy-to-understand diagrams

Statistics are presented in easy-to-understand pie charts, bar charts and line graphs. You can save statistics or import them into other programs such as MashZone and Minitab® for further analysis.

### Central ARIS repository

No unnecessary modeling effort is required. ARIS Simulation uses process designs and data, such as cost, times and volumes, from the central ARIS repository. Because the tool is fully integrated into ARIS Architect, processes captured by ARIS provide the baseline data for simulating business processes.

### Support for resource planning & deployment

You can create organizational charts and further break out human resources by the level of individual roles or employees involved in a process.

In addition, you can change various attributes of the modeling objects—which is especially useful when specifying the time and cost of a function, defining process execution frequencies and deploying different resource allocation strategies.

### Process risk simulation

Deal with operational risks in unprecedented ways. Simulation has been used intensively for classic market and credit risk scenarios. It is now available to identify operational risks along a process chain. You can analyze dependencies between business processes, risks and controls.

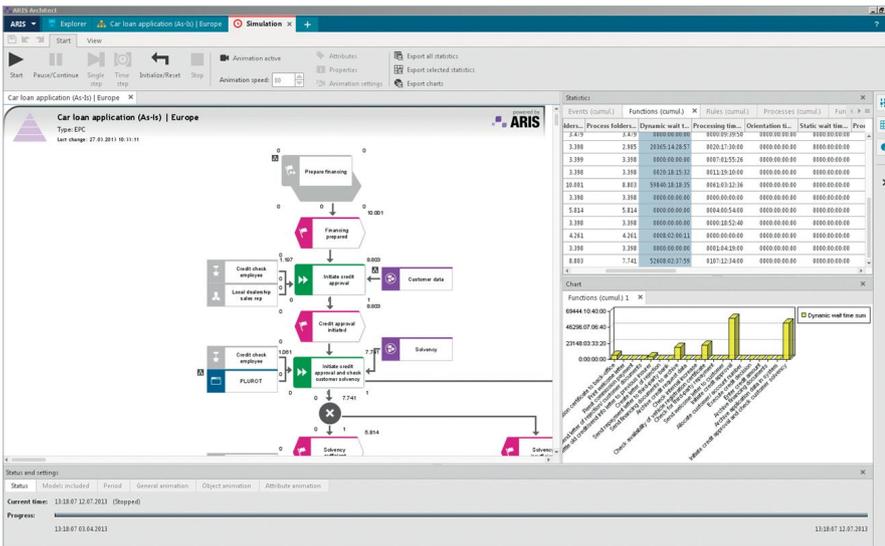
Using the standard modeling conventions, you can incorporate risk and control objects into the process models in question. Then, you can add information to further define risk-occurrence probabilities as well as damage distribution values, control effectiveness, sample sizes and damage-reduction values.

### Simulate EPC or BPMN™ models

With ARIS Business Simulation, you can analyze Key Performance Indicators (KPIs) across your Event-driven Process Chain (EPC) or Business Process Modeling Notation (BPMN) models to identify bottlenecks. KPIs include:

- Process throughput times
- Dynamic wait times (bottlenecks)
- Organizational center utilization and cost rates

Use this information to create reports and charts for both qualitative and quantitative analyses.



Simulate processes to try out different resource profiles, change throughput rates or make changes to the process and quickly view the likely impact.



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