



# Predictive Analytics and AI Software for Optimizing and Simulating Performance, Costs, Capabilities, and Outcomes.

**DESCRIPTION:** Opus Suite enables analyzing the digital twin of complex systems and subjects the resulting models to simulated real-life or hypothetical operational parameters to optimize performance and logistics support solutions. Using cutting edge algorithms and artificial intelligence, Opus Suite predicts how availability, mission capability, and cost of defense systems & support resources will vary over time.

Typical use:

- Analyze/Optimize a fleet of systems and its support solution.
- Predict maintenance events in real time to optimize maintenance strategy.
- Design support solutions and dimension resources like depots, equipment, staff, transports, etc.
- Identify and eliminate weak links, bottle-necks & down-time.

## BENEFITS

- Enables higher operational availability, increased sustainability and more efficient support solutions.
- Maintenance operations move from traditional reactive postures to a more proactive posture by the real-time assessment of component degradation.
- Assesses robustness of support solutions and the risk of not being able to fulfill the operational requirements.
- Makes it possible to set up and evaluate PBL-solutions\* based on trustworthy decision support
- Can model any dynamic operational scenario, any technical system with multi-level break-down structures and any complex asymmetrical multi-level support organization
- Easy and efficient to use with fast calculations

With Opus Suite you can predict and assess the impact of your decisions on performance and cost. Fast, accurate analyses and answers are at your fingertips whenever you need them. These are just some of the features offered by the suite.



## OTHER KEY POINTS

- User list includes defense authorities in 25 nations including the US, UK, France, Germany, Denmark, Singapore, Australia, South Korea, etc. plus defense systems manufacturers such as Lockheed Martin, Boeing, BAE, Thales, EADS, Eurocopter, Dassault, Saab, and many more.
- Extends traditional optimization problems and allows for detailed analysis and simulation to ensure solution robustness and capability over time.
- End to end optimization and analysis supports strategic and tactical requirements
- Flexible installation supports cloud, local host and enterprise applications
- Extensive manuals, training and online help





# OPUS10®

## SOFTWARE FOR OPTIMIZING SPARES SUPPLY & LOGISTICS SUPPORT SOLUTIONS

### DESCRIPTION

Software tool for optimizing spares, resources and logistic support solutions. The main objective is cost efficient logistics support, that enables high performance of defense systems at lowest possible cost and minimal footprint. OPUS10 calculates optimal assortment and allocation of spares. It is also ideal for evaluating system design alternatives from a logistics perspective and for optimizing the logistics support solution, e.g. warehousing and distribution structure, repair/re-order policy and optimal repair locations (LORA).

### BENEFITS

- Enables higher operational availability while cutting spares and maintenance costs by 25-50% vs other tools and methods
- Set up or evaluate PBL-solutions\* based on trustworthy decision support - Verified & Validated by UK MOD and used by customers world wide
- Can model any technical system with multi-level breakdown structures as well as complex asymmetrical multi-level support organizations
- User-friendly and efficient to use with fast calculations (even large cases optimized in seconds)

\* PBL = Performance Based Logistics



### OTHER KEY POINTS

- User list includes USN and Defense authorities in UK, France, Germany, Italy, Spain, Singapore, Australia, etc. plus suppliers like Lockheed Martin, Boeing, Raytheon, Bell Textron, BAE, Thales, EADS, Finmeccanica and many more
- Part of a complete software suite that also includes tools for logistics support simulation and cost analysis.
- Runs on standard PC or Network server
- Extensive manuals and online help
- Training courses and consulting services provided on request



## DESCRIPTION

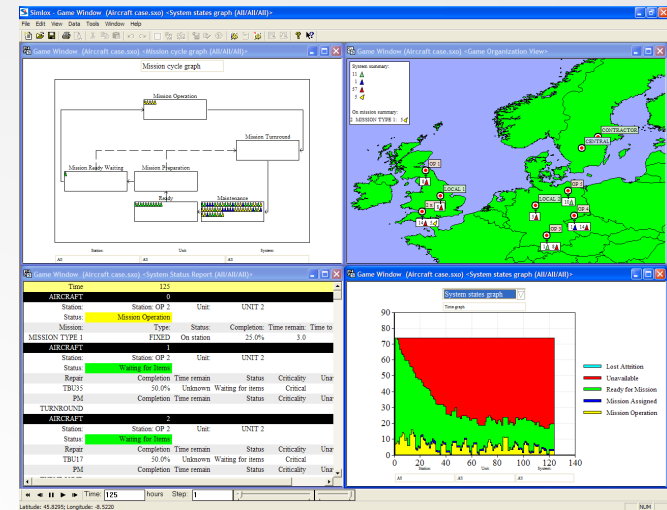
Software tool for simulating operational performance of technical systems and their logistics support solutions. Predicts how e.g. availability and utilization of defense systems & support resources will vary over time and what the impact will be on mission success rate. Typical use:

- Assess the capability of a system fleet and its support solution to handle dynamic operational scenarios, peak loads, resource limitations, etc.
- Design support solutions and dimension resources like equipment, staff, transports, etc.
- Identify and eliminate weak links, bottle-necks and reasons for system down-time.

## BENEFITS

- Enables higher operational availability, increased sustainability and more efficient support solutions.
- Assesses robustness of the support solution and the risk of not being able to fulfill the operational requirements.
- Makes it possible to set up and evaluate PBL-solutions\* based on trustworthy decision support (Verified & Validated by UK MOD and used by customers world wide)
- Can model any dynamic operational scenario, any technical system with multi-level break-down structures and any complex asymmetrical multi-level support organization

\* PBL = Performance Based Logistics



## OTHER KEY POINTS

- User list includes Defense authorities in UK, France, Germany, Denmark, Singapore, Australia, South Korea, etc. plus suppliers like Lockheed Martin, Boeing, BAE, Thales, EADS, Eurocopter, Dassault, Thyssen Krupp, Saab, and many more
- Extends traditional optimization problems and allows for detailed analysis and simulation to ensure solution robustness and capability over time.
- Runs on standard PC or Network server
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# CATLOC™

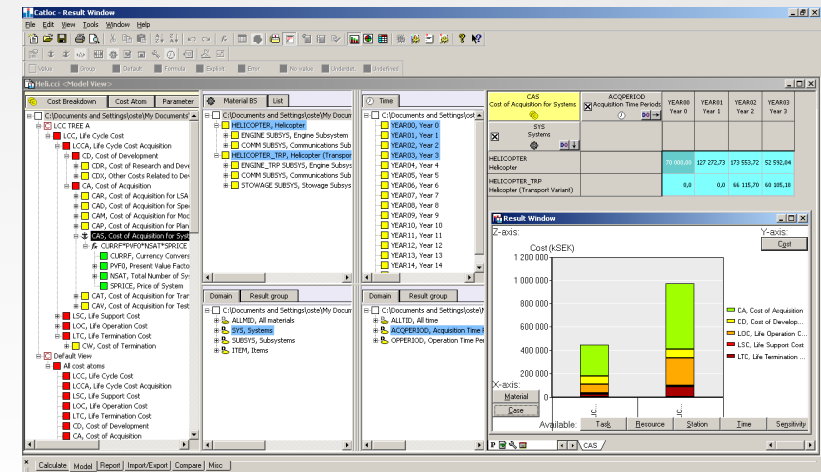
## SOFTWARE FOR COST/PROFIT ANALYSIS & LIFE CYCLE COSTING

### DESCRIPTION

Software tool for Life Cycle Cost (LCC) / Life Cycle Profit (LCP) analysis and cost estimation. Uses a flexible “bottom-up” cost model where the cost structure, formulas and parameters can be completely tailored by the user. In the graphical analysis mode, costs can be viewed on aggregate level, in detailed drill-down or broken down and distributed over the five dimensions time, materiel, locations, resources and activities. Used to evaluate competing system design alternatives or support solutions, identify cost drivers, as well as budgeting and consequence analysis

### BENEFITS

- Decision support, cost control and transparent comparison of alternative solutions.
- Fast, graphical and intuitive analysis of costs and revenue during the life cycle of a technical system.
- Unique cost analysis capability in five dimensions and built-in support for sensitivity analysis
- Flexible cost modeling where scope and level of detail is chosen by user based on objectives, requirements and available data. (No predefined tree structure)
- The cost model may be built from scratch or based on one of the included templates



### OTHER KEY POINTS

- User list includes Defense authorities in UK, France, Sweden Norway, Australia, South Korea, etc. plus suppliers like, Boeing, BAE, Thales, EADS, MBDA, MTU Aero Engines, Volvo Aero, Saab, Samsung, and many more
- Detailed cost analysis capability integrates seamlessly with optimization and simulation tools to dissect costs and ensure compliance with budgetary regulations (such as color of money).
- Runs on standard PC or Network server
- Extensive manuals and online help
- Training courses and consulting services provided on request

