

# Application Key - Opus Suite



Systems Management	
Concept development and choice of direction	
Estimate Life Cycle Cost and develop ILS-strategy	
"I want to develop a Life Cycle Cost model and a first estimate of the Life Cycle Cost"	X
Analyze alternative system concepts with regards to operative performance and Life Cycle Cost	
"When comparing a number of possible system concepts, I want to decide which concept is most optimal with regards to operative performance and LCC"	X
Design of support solution	
Design of logistics support organization	
"I am evaluating alternative solutions (varying number of systems, operations profile and maintenance concepts) and I want to calculate and compare the system efficiency for the different solution alternatives."	X
Dimensioning of maintenance resources	
"I want to make a preliminary calculation of the required spares assortment. I want to calculate the required assortments for the initial two-year period, for a one week autonomous mission and for a six month international peacekeeping mission."	X
Design logistic support solution for specific operational assignments /scenarios	
"I want to develop an optimal support solution that will make it possible during a certain time period to successfully complete requested number of assignments."	X
Sustainability analysis	
"After completing the spares optimization, I want to verify that my system can perform the required number of missions."	X
Develop an optimal repair strategy (LORA)	
"I want to decide if a component should be repaired or discarded when there is a failure."	X
"I want to decide where in my support organization it is optimal to repair different components"	X
Systems Engineering and Specification Development	
Definition of requirements	
Translate operational needs to logistics requirements (availability, reliability, maintainability and supportability)	
"I want to know how many systems I need to produce the requested number of operation hours"	X
"I want to evaluate which logistic parameters to use as contractual requirements in order to ensure operational availability"	X
Overall solution design	
Support Solution	
"I want to evaluate different support solutions"	X
"I want to make a sensitivity analysis for different support and stock solutions"	X
System Design	
"My system has a requirement on Preventive Maintenance (PM). Now I want to evaluate how this PM influences the spare parts stock and system effectiveness over time."	X
Specification of requirements	
Requirements RAM (Reliability, Availability & Maintainability)	
"I want to evaluate which requirements that are needed for e.g. failure rate, replacement times, TAT etc. in order to ensure target operational availability"	X
Procurement	
Request for Quotation (RFQ)	
Preliminary support organization	
"I want to outline a preliminary support organization that gives bidders the opportunity to adapt their solutions to the requirements which also allows for a neutral comparison of the tenders."	X
Cost model for Life Cycle Cost analysis (LCC)	
"I want to develop a cost model to include in the RFQ, that the bidders shall fill out with values and/or formulas."	X
Evaluation of Quotation	
Theoretical verification of requirement fulfillment	
"I want to verify theoretically that with 90% certainty, the number of unavailable systems will not exceed 4 during any arbitrary 24 hour period."	X
Life Cycle Cost analysis (LCC)	
"I am comparing quotations and I want to evaluate them from a cost perspective using an LCC-approach"	X
Initial spares procurement	
"I have received a supplier suggestion for an initial spares assortment. I want to analyze the efficiency of this suggestion and evaluate if and how it can be improved"	X
Verification & Delivery	
Verification	
Evaluation of availability	
"I want to verify theoretically that the 95% overall availability requirements will be met"	X
LCC prediction	
"Using the provided data on the delivered system, I want to predict the Life Cycle Cost."	X
Evaluations	
Evaluate how the current system design affects the maintenance costs	
"There is an option to install a new component, that requires an expensive maintenance resource. I want to evaluate how this would affect LCC in comparison with original design"	X
Evaluation of logistics support solution	
"I have received a supplier suggestion for an initial spares assortment that I want to evaluate"	X
Validation of operational requirements	
"I want to validate theoretically that the number of operational hours will be at least 85% of the requested"	X
Operations and Maintenance	
Continuous improvement of system and support organization	
Find bottlenecks and weak links in the support solution and the support organization	
"I want to improve my system effectiveness. Which improvement will give the best "bang for bucks" (hire more personnel, buy more spares, introduce 2 shifts, etc.)?"	X
Reallocation of spares and maintenance resources	
"I want to know the best way to allocate personnel and test equipment within my current support organization"	X
"I want to know the best way to allocate my existing stock of spares"	X
Analyze the effect of suggested improvements and modifications	
"How is the system effectiveness affected if the maintenance personnel is split into two teams working is two shifts per day"	X
Study dynamic effects like peak loads, transients and changes in configuration.	
"In the maintenance concept, a certain number of repair resources has been allocated to each depot. I want to verify that these resources are able to handle peak loads"	X
System design modifications	
"The redesign of a system includes the introduction of a new subsystem. I want to evaluate how this affects availability performance and costs (LCC)"	X
Definition of support agreements	
"An outsourcing agreement for logistics support will be established. I want to evaluate different incentive models and suitable requirement levels."	X
Spare parts	
Continuous improvement of spares assortment	
"The spare part stock has been optimized during initial provisioning. I want to use new experience data from operations and maintenance as input for a revised spares optimization"	X
Adjustment of spares stock to reflect changes in configuration, utilization and/or support solution	
"I have an existing spares solution and I want to predict how system effectiveness will be affected if the scenario changes. If needed I want to acquire additional spares to ensure system effectiveness can be upheld."	X
"A system has low availability due to insufficient work shop capacity. I want to know how much system efficiency can be improved by acquiring additional spares."	X
Additional replenishment of spares	
"A new maintenance agreement is being negotiated. I want to know how much to invest in additional spares in order to uphold the service level for existing customers."	X
Identify cost drivers and control cost flow	
"I want to develop a long term plan and budget."	X
Termination	
Termination/replacement decisions	
Termination and replacement of ageing equipment	
"I want to analyze when it is optimal from an economical perspective to replace my fleet of systems."	X
Adjustment of support solution during phase out	
Successive adjustments of spares assortment and allocation during phase out	
"I want to evaluate if I should stop repairing or purchasing replacement spares and rather start cannibalizing unused systems."	X