

VOITH

Industrial Services

Supportability Engineering



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Where we are 

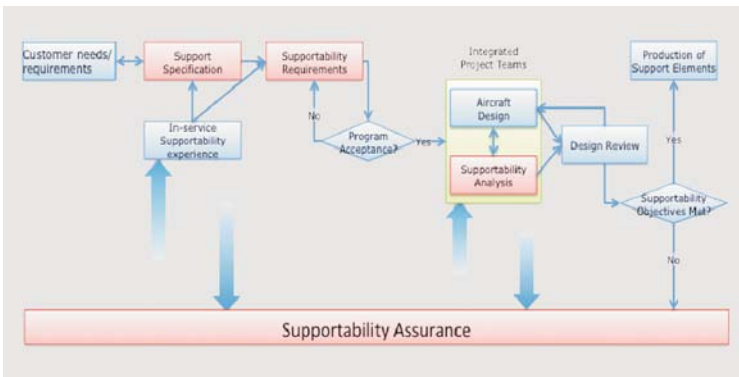
You find us in

- Bremen
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- Toulouse
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Competence and Know-how – Available Worldwide

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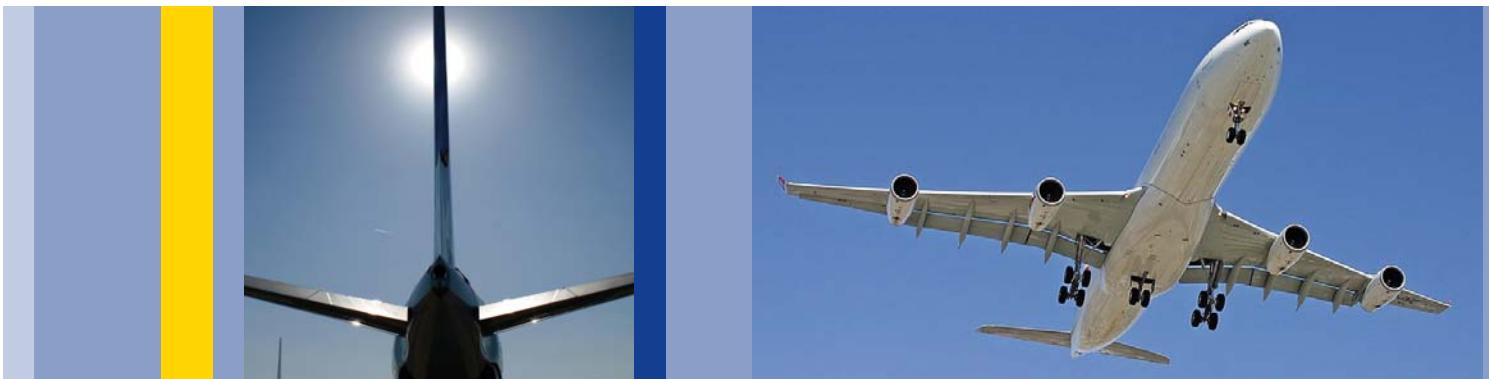


Why use Supportability Engineering?

The Voith approach to integrate supportability engineering with systems engineering is depicted in the diagram above:

ILS is a structured analysis of supportability that uses a disciplined Whole Life Cost approach to the selection of a support solution, minimising support requirements through design influence on the operational system (hence the integration with Systems Engineering) and the optimisation of support elements.

The key activity in the ILS methodology is the Logistic Support Analysis (LSA), where the design influence is exerted on the operational system, and the support solution options are identified, evolved and refined by the use of trade studies to produce the final, optimised support solution.



What is Supportability Engineering?

At its simplest Supportability Engineering is a through-life, project management discipline combining the application of Integrated Logistic Support (ILS) and Systems Engineering methodologies to produce the best possible support solution.

Supportability Engineering aims to minimize direct maintenance and operating costs through a product's lifecycle. These efficiencies are achieved through:

Improvements in product reliability, Reduction in maintenance costs through design optimization and planning as well as increased availability.

The application of Supportability Engineering involves the use of skills and resources in:

Requirements Management to identify, capture and manage the supportability requirements

Integrated Logistic Support to design, manage and execute the program of work that influences the system design and generates the support solution.

Systems Engineering to design and develop the support components that comprise the support system.

Systems Integration – Test, Evaluation and Acceptance to verify and validate the support system.

To achieve real benefits, an in-depth knowledge of the customer's operational situation is necessary to allow the definition of a support solution that is compliant and complimentary with operational environments and business or legislative constraints applicable to the business activity under review.

Service & Expertise

Voith's Supportability Engineering offering is delivered by experienced staff adept at establishing the principal drivers for Supportability through experience gained within the aerospace industry.

Voith offers expertise encompassing all the elements that combine to create Supportability Engineering, including:

- Integrated Logistic Support Program Management
- Logistic Support Analysis
- Maintenance Planning
- Supply Support
- Obsolescence
- Manpower and Human Factors
- Whole Life Costs; Support and Test Equipment
- Reliability, Maintainability and Testability
- Facilities
- Training and Training Equipment
- Technical Documentation
- Packaging, Handling, Storage and Transportation
- Ground Support Equipment
- Software Support
- Configuration Management
- Logistic Information
- Disposal

In addition, Voith can provide coverage for Human Factors Engineering in accordance with EASA 145 requirements and Safety Management where customers wish to include these within an ILS program.