

DESIGN MANAGEMENT WITH IBM® ENGINEERING LIFECYCLE MANAGEMENT

System Design Rhapsody®, Design Manager and Model Manager

CLARITY THROUGH MODELS, PROTOTYPES AND SIMULATION

Model-Based Systems Engineering (MBSE) has long been recognised as an effective method of mitigating risk, reducing costs and increasing agility and as products become more interconnected and software intensive, more organisations are waking up to the benefits.

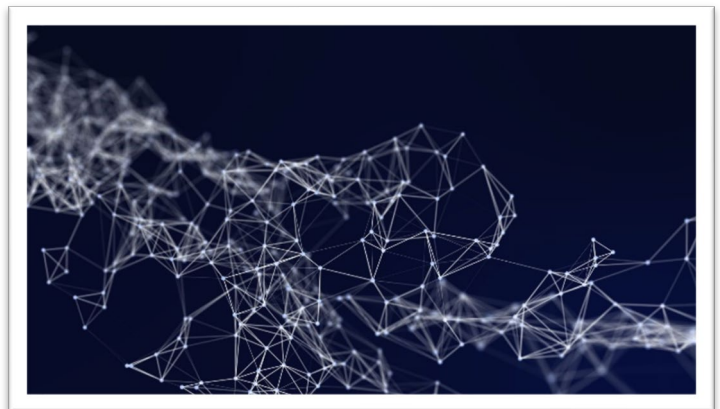
Prototyping and modelling your system design provides a reliable and seamless way of understanding the architecture and behaviour of your products and services which enables you to adapt to changing market and customer requirements whilst improving your overall productivity. The early validation of requirements is critical to the overall effectiveness of your system design.

The rising complexity in industries such as Aerospace, Rail and Defence is evolving the types of challenges seen by engineers. These challenges are causing many organisations to integrate new systems and software engineering solutions which automate MBSE whilst also providing tools which give end-to-end management of the engineering life cycle.

Model Based Systems Engineering gives clarity of information whilst reducing costs.

THE RISE OF THE DIGITAL TWIN

Understanding the impact of design across all systems is critical in ensuring a compliant and effective product. The formation of a digital 'twin' allows design teams to understand the behaviour of a system, across the entire product life cycle.

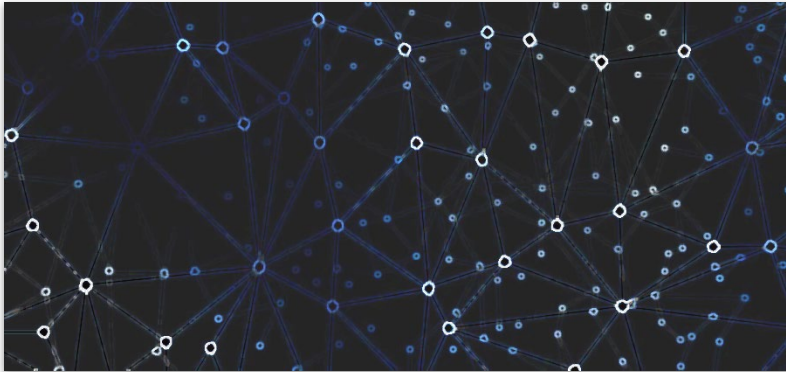


ADVANCED ANALYTICS

By using a model, engineering teams create a repeatable opportunity to analyse system characteristics and architecture early in the development life cycle, when the cost of change is lower. This provides a consistent way of focusing on the requirements, structure, connections, and overall properties of the system.

D A T A S H E E T

AUTOMATING MODEL-BASED SYSTEMS ENGINEERING WITH SYNTHESYS & IBM®



IBM® Engineering Systems Design Rhapsody® and associated tools provides proven functionality for modelling and design management. The tools automate the way in which you check for consistency and offers continuous validation through models and prototypes.

The suite of tools offers development, design and test environments for software and systems engineers and teams.

The IBM® Engineering Systems Design Rhapsody® suite supports Systems Modeling Language (SysML), Unified Modeling Language (UML) and AUTOSTAR whilst facilitating control of industry standards and frameworks. The tool allows you to manage complexity within your software and system development processes.

One of the major benefits of the Rhapsody® tools is that they facilitate collaboration throughout the engineering team by enabling the entire team to review and access common engineering project data and artefacts.

VALUE THROUGH SYNTHESYS

We specialise in tool-supported systems engineering – providing our Customers with affordable systems engineering tools to increase their efficiency and effectiveness in delivering solutions to their Customers. As an IBM® Gold Business Partner, SyntheSys provides a unique blend of application knowledge, experience and a flexible delivery mechanism, which provides Customers with the right software solution and a deeper understanding of the tools to ensure maximum benefit.

Our ability to work with IBM® to distribute Engineering Lifecycle Management software is built on a firm foundation of industry know-how and extensive knowledge of the engineering tools which enables us to distribute the tools in a value-added way. Our services offering stretches much further than the deployment of technology.

IBM® ENGINEERING SYSTEMS DESIGN RHAPSODY®

Increase the quality of your systems and go-to-market faster with this proven solution.

Usage & Value

- **Deliver complex functionality fast and effectively.**
- **Analyse your designs in a consistent, safe and repeatable environment.**
- **Collaborate, share and review artefacts created within IBM® Engineering Systems Design Rhapsody® or other engineering design tools.**
- **Validate through prototyping, swift simulation and execution to tackle errors effectively.**
- **Reduce both recurring and non-recurring costs.**

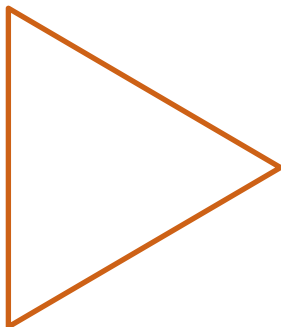
IBM® ENGINEERING SYSTEMS DESIGN RHAPSODY® - MODEL MANAGER

Rhapsody® – Model Manager acts as a web-hosting tool for Rhapsody® models and is also used for configuration management. The tool provides the ability to manage models and code on the same configuration management server and links between other IBM® Engineering Lifecycle Management Requirements, Workflow and Test tools to create links between models and artefacts.

Usage & Value

- **Develop model and code more effectively by collaborating multi-user environments.**
- **Unify your configuration management and view your models on the web.**
- **Create dynamic links between models and other ELM tools.**
- **Comply with industry standards.**
- **Access and deliver powerful reports from relating to both your models and the wider Engineering Lifecycle.**

Gold
Business
Partner



D A T A S H E E T

About SyntheSys

SyntheSys provides defence systems, training, systems and software engineering and technical management services over a spectrum of different industry sectors. Along with distinct support and consultancy services, our innovative product range makes us first choice provider for both large and small organisations. Established in 1988, the company focus is on fusing technical expertise with intuitive software applications to solve common industry challenges.

