Reduced systems complexity and improved interoperability of systems for the Ministry of Defence and its partners

Rational. software

IBM Rational System Architect for MODAF Add On

Highlights

- ***Helps developers build MODAF architectures in a single, cohesive design environment.***
- ***Promotes communication and collaboration via a multi-user repository.***
- ***Helps enable users to capture, build and maintain large, complex architectures, while maintaining consistency for stakeholders.***
- ***Aids in analysis and reporting by assisting users in visualising relationships and dynamically exploring the architecture.***

IBM® Rational® System Architect® for MODAF Add On software provides an environment for the defence community to select, prioritise, acquire and build complex systems to support required UK defence capabilities. The Ministry of Defence Architecture Framework (MODAF) is a key enabler for the Ministry of Defence's Network Enabled Capability (NEC).

One of the first modelling solutions recognised by the UK MoD as being convergent with MODAF, System Architect for MODAF Add On enables users to build and share models via a multi-user repository, analyse that information, and publish MODAF views in a variety of formats. The System Architect solution provides relevant information to all stakeholders that can be targeted towards their particular role.

How it works

IBM Rational System Architect is a leading software solution for both enterprise architecture and Defence Architecture Frameworks, including MODAF, NAF and DoDAF. The Rational System Architect for MODAF Add On solution helps enable users to capture, build and maintain large, complex architectures, helping ensure consistency for stakeholders.

The System Architect solution provides a shared repository in which multiple users can safely collaborate and share MODAF information in a federated environment. All information entered and modelled in Rational System Architect software can be reused to ensure a consistent set of views are maintained. Furthermore, information can be published, exported and deployed in other environments.

An integration with IBM Rational DOORS® — a leading requirements definition and management solution— helps MODAF users maintain traceability between the requirements and the architecture throughout the acquisition process.

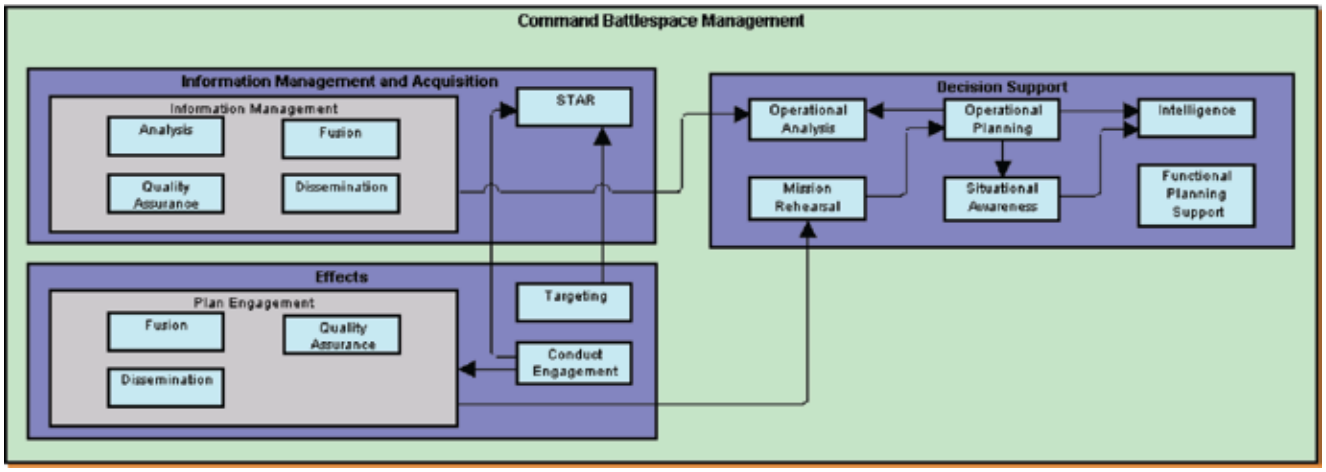

Figure 1: Automatically generated Capability View within System Architect for MODAF Add On

Full support for all MODAF views in a single repository

Strategic views

Analysing and optimising the delivery of military capability in line with the MoD's strategic intent. The strategic viewpoint can be used for capability audit and gap analysis.

Operational views

Descriptions of the tasks, activities and information exchanges required to accomplish strategic and operational goals.

Systems views

Graphical models and textual descriptions of the systems and interfaces that support system functions.

Technical views

The tool helps users meet technical standards, implementation conventions, business rules, and criteria that govern the architecture.

Acquisition views

How the system will support required capabilities and integrations at different points in time. The acquisition view describes dependencies between programmes and helps provide a roadmap for systems management.

System Architect for MODAF Add On solution's 'Explorer Diagram' helps enable users to visualise relationships and dynamically explore the architecture. MODAF reports and templates enable effective communication of the architecture across the enterprise.

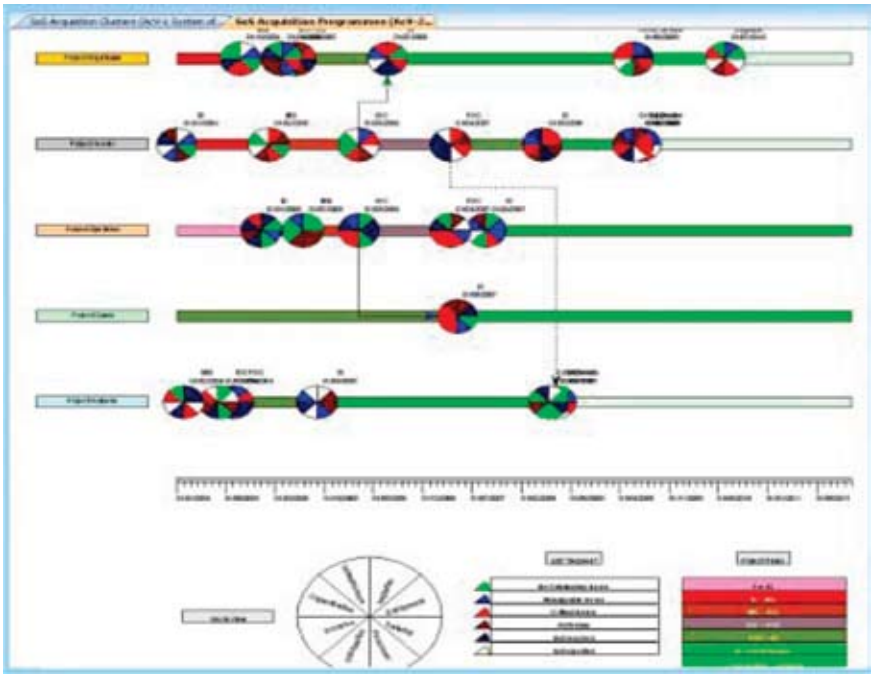

Figure 2: Acquisition View within System Architect for MODAF

Analysis and reporting

The System Architect for MODAF Add On product 'Explorer Diagram' helps enable users to visualise cause-effect relationships and dynamically explore the architecture. MODAF reports and templates enable effective communication of the architecture across the enterprise.

For more information

To learn more about IBM Rational System Architect software, contact your IBM representative or IBM Business Partner, or visit:

ibm.com/software/rational

Feature	Functional benefit
Support for all MODAF 1.2 viewpoints	Promote standardisation through clear convergence with MODAF criteria
Automatic generation of MODAF views from existing information	Simplify user adoption through replication of MODAF deskbook views
Support for modelling standards including BPMN and UML	Identify unnecessary costs through better planning and implementation
Graphical analysis and reporting of MODAF relationships and dependencies	Improve visibility, coherence, consistency and understanding of the architecture
MODAF framework manager for ease of navigation	Accelerate model building through information re-use
Web browser-based access extends team collaboration	Extends requirements traceability through Rational DOORS integration

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