



*Full Day Tutorial at the Institute for Advanced Systems Engineering (IASE)*

**Tutorial Title: The Integrated Architecture Modeling and Management Capability UCF – IASE Lab Proof of Concept**

***Instructor:***

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**When:** Tuesday, Sept 1<sup>st</sup>, 2009, 9:30am-4:30pm (1 hour lunch break)

**Location Info:**

**[Institute for Advanced Systems Engineering](#)**

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[IASE MAP](#)

**Open to all, No registration Fees, Limited to 15 Seats,  
RSVP to [tareqahram@gmail.com](mailto:tareqahram@gmail.com) By August 31st, 2009**

**About The Tutorial:** The Integrated Architecture Modeling and Management (IAM2) capability from IBM supports your organizational processes to implement your program strategy across multiple solutions. Model-centric technology, industry approaches and IBM best practices come together in this offering to create organizational transparency. By leveraging this innovation you can improve visibility, deliver solutions successfully and control your portfolio. Ultimately, this capability can help you improve the way you approach program and solutions integration and management.

**IAM2 Goals:**

- Creates transparency and visibility
- Promotes program and organizational cost savings
- Helps deliver a rapid return on a minimum investment
- Facilitates faster, higher-performing deployments to the field
- Works to mitigate risk across the systems development lifecycle
- Supports an auditable integrated architecture within a program and across your portfolio

### **Integrated model creates transparency**

The IAM2 capability is designed to support the development of an integrated model that describes the essential concepts of your solutions portfolio and programs to integrate a set of solutions. Facilitating integration across legacy or SOA solutions, the IAM2 capability enables you to rapidly access and reuse assets. The integrated model supports your preferred methods and processes for architecture development. You may then extract tailored reports and views for analysis and to support Industry Frameworks, government frameworks and other cross-industry standard frameworks such as The Open Group Architecture Framework (TOGAF) and North Atlantic Treaty Organization Architecture Framework (NAF).

Providing a model for transforming your portfolio and programs over time, the IAM2 capability facilitates realization of an open business model-based acquisition strategy. Open business models facilitate visibility and encourage competition among solution deliveries while also allowing you to develop or acquire multiple complex solutions based on multiyear funding cycles. The capability allows your strategists, program managers, business experts, systems engineers and IT architects to collaborate within a single integrated environment. Using the IBM solution, you can work to achieve real visibility of your enterprise through business intelligence reporting all while leveraging the Model-Driven Architecture (MDA) approach.

### **Integrated technologies reduce risk**

IBM Rational® solutions based on Eclipse technology provide an integrated suite for architecture lifecycle management. These solutions, coupled with IBM best practices, help minimize the resources required to establish and maintain an integrated solution, and they may mitigate risk on your program's ultimate success. The IAM2 capability supports a service-oriented architecture (SOA) approach and facilitates seamless integration with the IBM SOA Foundation—a cross-brand solution that provides for run-time SOA delivery and core SOA enterprise services.

The core IAM2 capability is composed of a set of solutions in several lifecycle categories: integrated architecture definition modeling, requirements definition and management, change management and asset and configuration management and integrated quality management.

#### *Integrate Architecture Definition and Design*

Offered across the IBM Rational Software Architect family of products, the integrated architecture model allows you to model, design and rapidly build resilient portfolio, business, strategy and system-of-systems and system/IT architectures to define and manage integrated solutions, implement strategy, and drive SOA initiatives. And this may be done within a single environment and model framework.

#### *Integrated /portfolio or solutions architecture*

IBM Rational Asset Manager® integrates with Rational Software Architect® and IBM Tivoli® and WebSphere® solutions to rapidly integrate, manage, reuse and align

architectures across your portfolio for increased visibility, program integration and component management. With the Integrated Architecture Modeling and Management capability, Rational Asset Manager can help you acquire quick answers to questions to analyze entire portfolio or system of systems. And you can develop an organizational asset management reuse strategy.

#### *Manage Portfolio and Program Assets*

IBM Rational ClearCase® integrated with Rational Asset Manager ® and provides a scalable solution for configuration management and version control. Any size project can leverage and scale with these Rational tools within the IAM2 capability to help improve architecture management and delivery.

#### *Control Change across Stakeholders*

IBM Rational ClearQuest®, integrated with Rational Asset Manager® and either Telelogic DOORS® RequisitePro® provides a complete change management solution that aligns workflows, assets and requirements that drive or support change..

#### *Define and Manage Quality Requirements*

IBM Rational Requirements Composer and IBM Rational RequisitePro® and Rational Software Architect ® can help you to capture stakeholder needs and effectively define requirements to map with business objectives. The solutions can also help you manage requirements and provide traceability and alignment with business processes.

#### *Integrate Lifecycle Data*

IBM Rational RequisitePro®, integrated with Rational Software Architect® and Rational Quality Manager® provides an explicit tracing between your requirements, architecture elements and test cases. The IAM2 solution maintains a dynamic tracing across critical systems engineering data that support decisions and deliverables and drive business objectives and outcomes.

#### *Integrate Solutions Across Multiple Projects or Initiatives*

Evolve and integrate your portfolio of solutions using a model-driven engineering approach. The Integrated Architecture Modeling and Management capability leverages best practices and technologies to drive visibility and control across these initiatives. Embedded in the Integrated Architecture Modeling and Management capability is IBM's innovation around business intelligence and reuse. Leverage this knowledge to govern and repurpose your architecture or service-related assets within a single environment—tailored to your systems portfolio. Extract relevant and customized reports from architecture assets to achieve a complete perspective. Address expected and unanticipated change with increased business intelligence visibility for impact analysis, reuse and reporting.

#### **Integrated portfolio creates flexibility**

The differentiated approach from IBM encourages innovation by working to instill visibility and alignment in your program or portfolio of solutions, which facilitates

portfolio management. The Integrated Architecture Modeling and Management capability helps to identify common components for reuse and costing, drive open strategies early to support ease of integration later, and align to your strategy and acquisition concerns to meet goals and objectives.

The IAM2 capability works to alter the playing field. It can help you deploy higher-performing solutions faster. And it can help you significantly improve the way you approach management of multiple solutions or projects within your portfolio or program. Get started by importing legacy data that may be reused immediately. Or transform data from your enterprise architecture to implement your strategy with IAM2 – then extend your integration across IBM solutions such as WebSphere, Tivoli and other Rational products including Telelogic System Architect® and Rhapsody®.

**For more information**

To learn more about the Integrated Architecture Modeling and Management capability solution from IBM, contact your IBM representative or IBM Business Partner, or visit:

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