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## Conference Program

### Tuesday – September 9, 2003

9:00 – 10:30 *Anne Thomas Manes, Analyst, The Burton Group*

9:00 – 10:30 ***Model Driven Architecture: Reality and Implementation***  
David Frankel, David Frankel Consulting

UML-based technologies are paving the way for automating aspects of software development, insulating software from platform volatility, and promoting rigor and engineering discipline in the creation of large-scale systems. Learn how to apply Model Driven Architecture (MDA) principles when building and integrating enterprise systems. MDA is a recent initiative from the OMG to improve the way in which systems are developed. MDA addresses the complete life cycle of designing, deploying, integrating, and managing applications as well as data using open standards such as UML, XML, MOF, EJB and CORBA.

10:30 – 10:45 Morning Refreshments

10:45 – 12:00 ***Panel – Web Services Standards: Where Are They Going?***  
Moderator: Andrew Watson, VP & Technical Director  
Object Management Group

Picking up industry newsletters, we see daily changes and a constant ebb & flow in the definition of Web Services standards. In fact, the term "Web Services" itself seems to be hard to pin down: is it SOAP? Is it delivery of services over the Web? Who should set standards for Web Services, industry, users or consortia? This panel, featuring leaders from all of the primary Web Services-related standards consortia, will address these issues, and paint a picture of Web-enabled integrated applications, based on open, neutral standards.

Panelists: Allen Brown, President and CEO, The Open Group  
Tom Glover, President, WS-I  
Philippe Le Hégarret, World Wide Web Consortium (W3C)  
Scott McGrath, OASIS

12:00 – 1:00 Lunch

12:00 – 6:00 **Exhibit Area Open**

1:30 – 3:00 ***Sponsor Presentation:***



3:00 – 3:30 Afternoon Refreshments (Exhibit Area Open)

3:30 – 5:00 ***Model Driven Business Integration***

Sridhar Iyengar, IBM

The need to address multiple middleware standards that are independent of business process is clear; most large enterprises continue to be in a state of flux as business and technology changes overlap with differing time scales. While the industry continues to grapple with a variety of middleware integration technologies --- CORBA, J2EE, SOAP etc.; only one architecture---OMG MDA---has formalized the use of Models (UML, CWM) and Metadata (MOF, XMI, JMI and XML) to address Mappings (Transformations) between business models and technology platforms (J2EE, Web Services Architecture, .Net etc.). This session highlights how formal models and extensible metadata can be used as the basis for an architecture that integrates businesses. This is accomplished by working with the business models while maintaining separation of concerns that allows for the evolution of technology platforms. By combining complementary technology standards from W3C, JCP and OMG MDA, an architecture for model driven business integration is created, which allows the business analyst to specify integration needs and goals.

3:30 – 5:00 ***Model-Driven Data Warehousing***

(TBC) David Mellor, Oracle Corporation

Data warehousing is one of the most challenging areas for the integration of diverse tools and applications, and yet offers perhaps the greatest possible return-on-investment for successful integration efforts. Both OMG and a number of other industry consortiums have produced a number of important, modeling-based interoperability standards. These include the OMG standards of UML, MOF, XMI, CWM, and related Java Community Process interface standards such as JMI, JOLAP and JDMAPI, as well as various XML and web services models. This session investigates how these various standards can be combined together to provide seamlessly integrated data warehousing, business intelligence, and information supply chain environments, all within the framework of OMG's Model Driven Architecture (MDA) initiative. The complete evolution of the data warehouse, from conceptualization and design (logical and physical modeling), to configuration, deployment and generation, to daily operations and maintenance, is described in terms of MDA. Particular emphasis is placed on the use of CWM and standard meta data patterns, the use of a centralized model repository, automated schema generation and tool initialization, and warehouse deployment in terms of the Java 2(TM) Platform and XML standards.

5:00 – 6:00 ***The SOA Metamodel:***

***Applying MDA to Service-Oriented Architecture***

Jason Bloomberg, Senior Analyst, ZapThink LLC

Service-Oriented Architectures (SOAs) based on Web Services have been getting a lot of attention lately, but many discussions of SOAs gloss over the fact that SOA is a type of architecture. This session discusses the practice of SOA as a type of enterprise architecture that incorporates two important trends in IT today: Model-Driven Architecture and Agile Development Methodologies. We'll introduce the SOA Metamodel, which describes the models that represent the parts of an SOA. The session will then discuss the different architectural views that make up SOA and the roles in the enterprise that take up these views. We'll finish with some best practices that enterprises can adopt today to build successful SOA implementations.

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## Wednesday - September 10, 2003

9:00 – 10:30 *Data Integration Issues for the Large Enterprise*  
Michael Lang, Metamatrix

Mission critical data is typically available from various sources in various, often incompatible, forms in a large enterprise. The ability to present data in a uniform way, irrespective of the source, facilitates timely and more efficient use of data. This session will discuss issues involved in enabling such uniform presentation of data through integration of data from various sources using ideas from Model Driven Architecture.

9:00 – 10:30 *Reducing Test & Integration Time Using Executable UML*  
Allan Kennedy, Kennedy Carter Ltd.

Executable UML facilitates validation of software design in a simulated environment before it is deployed in expensive embedded systems, thus reducing test and integration time and rework. This session will present how this novel use of the OMG Model Driven Architecture has been used successfully in the development of software for fighter jets.

10:00– 6:00 **Exhibit Area Open**

10:30 – 11:00 Morning Refreshments

### **KEYNOTE PRESENTATION**

11:00 – 12:00 *The Theory of Networked Everything*  
Greg Papadopoulos, Chief Technology Officer  
Sun Microsystems

This keynote will look at trends in network computing architecture and technology, paying particular attention to the "software shift," the dramatic change in software development and deployment models that has occurred with exponential growth of the network. As the network has "decomposed," with compute functionality like processing power, storage, and network resources being widely dispersed instead of residing in a single location, the importance of the platform and the "developer contract" have evolved to keep pace. The complexity of the network, and the number and diversity of devices connected to it, are also driving new ways of deploying and managing network services. IT professionals are under increasing pressure to make more efficient use of costly computing resources. Mr. Papadopoulos will outline Sun's heterogeneous N1 architecture for deploying and managing compute, network and storage "elements" by virtualizing capacity across the data center into a single pool of dynamically addressable IT resources, in essence, building a computer out of the network.

12:00 – 1:00 Lunch

13:00 – 2:30 ***Management by Model - Model Driven Architecture and IT Governance***

Anthony Mallia, Principle Consultant, CIBER, Inc.

The presentation shows how a methodology surrounding UML and in particular Model Driven Architecture (MDA) can be used to support an effective Software Development Life Cycle in a distributed systems and development organization environment.

Not only does this approach support the collaboration of systems through middleware but the collaboration of development organizations through an architectural framework defined at the enterprise level.

With a hierarchy of work products produced by different parts of the organization, the approach brings them together for a project or release life cycle, which forms the template for the project plan.

Two case studies will be described to illustrate the concept.

13:00 – 2:30 TOPIC - ***Open Source to Integrate Your Business*** - Title TBA  
Jason Matthews/Donald Vines, 10x Software, Inc.

2:30 – 2:45 Afternoon Refreshments (Exhibit Area Open)

2:45 – 4:15 ***Enterprise Integration -- the Reality***  
Scott Koehler & Max Tyler, Koehler Consulting

In this session two senior software architects will relate their experiences on large enterprise integration projects in the financial services industry. Learn some of the methods, techniques, and considerations involved in delivering solutions using modern software architectures. Topics include:

- Defining a strategic application architecture
- Developing a Service Oriented Architectures and practical uses of Web Services
- Design considerations for Event-based processing. Defining Business Events.
- Creating and using Enterprise Models
- Utilizing business engines to aid integration
- Integrating with workflow products
- Utilizing messaging strategies
- State management options
- Positioning business process management tools and techniques
- Testing strategies

2:45 – 4:15 ***Continuous Integration & Testing***

Brad Kain, President, QUOIN

Software development professionals acknowledge the importance of effective development tools and processes. However, too many projects fail to perform adequate configuration management, quality assurance, testing, or other well-known development practices. Such shortcuts can significantly degrade the functionality and usability of software. QUOIN has extensive experience in delivering applications for complex system integration and operational environments on-time, on-budget and often with zero defects. These results require a disciplined and pragmatic development process. In particular, an effective development process must support continuous integration -- an approach that relies on frequent design-build-test iterations throughout construction.

The presentation will address the interests of IT managers, project managers, and senior developers who want to deploy highly-effective project teams for their organization. The session will include discussion of the following key techniques for continuous integration and testing.

- An agile project: iteration, collaboration, and continuous integration
- Full-lifecycle quality assurance
- Comprehensive source code control & configuration management
- Rigorous and automated unit, system, and integration testing
- Automated creation of staging and production environments
- Automated build, deploy, and test processes

4:15 – 4:30 Afternoon Refreshments (Exhibit Area Open)

4:30 – 6:00 ***Aberdeen Roundtable***  
***Gaining Efficiency In Software Development***

Tim Sloane, Tom Dwyer, Wayne Kernochan, Aberdeen Group

This Analyst Roundtable will focus on:

- “The Process Aware Developer” - how business process languages are evolving and the role they play in shifting development closer to the business user, while driving the componentization of packaged and custom software.
- “The Problem of Data” - data-access coding is typically the place that yields the greatest improvements in programmer productivity. How should the developer approach processes that link previously unrelated data hidden beneath existing applications?
- “Process Directed Collaboration in Software Development” - The benefit of integrating collaborative tools to development environments to drive requirements gathering, process definition, goal setting, and to assist an enterprise’s effort to climb the CMM ladder to level 5.

6:00 – 8:00 ***Conference Reception hosted by***

