

# ENTERPRISE INTEGRATION TECHNOLOGIES

**2-day Public or In-house Course on the latest  
Technologies for e-Business and e-Government**

**Presented by Clive Finkelstein**

- XML and Enterprise Application Integration (EAI) Technologies and Strategies
- Web Services and Service-Oriented Architecture (SOA) Business Process Management (BPM) Concepts for Real-Time Enterprise Integration
- Evolving Enterprise Integration Strategies to Enterprise Architecture

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With the rapid pace of change today, the need for transformation from today's inflexible business environment to an agile enterprise that can change direction rapidly has never been greater. Technologies for Technology Integration that achieve *Rapid Delivery of e-Government and e-Business Strategies* are needed that support rapid business change.

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## **Day 1-2 Audience**

- CIO, CTO
- Government Program Managers
- Business Managers
- Business Experts
- IT Managers
- Project Managers
- Business Analysts
- Systems Analysts
- Enterprise Architects.

**DAYS 1-2**

# **ENTERPRISE INTEGRATION TECHNOLOGIES**

*2-day Course on Strategies and Technologies for Enabling Enterprise Integration*

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- 1. THE ROLE OF THE INTERNET IN ENTERPRISE INTEGRATION**
    - B2B e-Business Integration Issues, and B2B cost effectiveness Business Drivers
    - Introduction to XML and XSL for e-Business
    - Demonstration of XML and XSL Transformation
  - 2. ENTERPRISE APPLICATION INTEGRATION CONCEPTS**
    - Growth of Trading Communities and XML Messaging Standards
    - Enterprise Application Integration (EAI) Concepts
    - EAI Technologies and Standards
    - EAI Strategies: webMethods; Microsoft BizTalk; ebXML vendors
  - 3. INTRODUCTION TO PORTAL APPROACHES FOR ENTERPRISE INTEGRATION**
    - Characteristics of Collaborative, Business Intelligence and Integration Portals
    - Portal capabilities that are essential for Enterprise Integration
    - Portal product strategies
  - 4. REAL WORLD ENTERPRISE AND e-GOVERNMENT PORTAL CASE STUDIES FOR INTEGRATION**
    - Real World examples of Portals used for Enterprise and e-Government Integration
  - 5. THE ENTERPRISE METADATA IMPERATIVE**
    - Role of Metadata in Enterprise Integration
    - Data Source and Metadata Analysis
    - Metadata Engineering – Specifying and defining requirements as Metadata
    - Strategies for Metadata Definition and XML generation
    - Real World Case Study of Metadata XML generation
  - 6. WEB SERVICES CONCEPTS FOR REAL-TIME ENTERPRISE INTEGRATION**
    - Technologies for Business Integration today
    - What are Web Services and why are they so important for the Integrated Enterprise?
    - What are the concepts of Real-Time Web Services and Web Services Messaging?
  - 7. WEB SERVICES PRODUCT STRATEGIES AND EVOLUTION**
    - How are Web Services evolving?
    - Web Services products and strategies (.NET, J2EE and Bridging products)
    - How do Web Services enable the evolution of the 21st century Integrated Enterprise
  - 8. SERVICE-ORIENTED ARCHITECTURE FOR WEB SERVICES**
    - Emerging Business Process Management (BPM) languages for Service Oriented Architecture (SOA)
    - Automatic generation of executable code from Workflow Models or Business Process Models using XML-based BPM languages
    - SOA BPM Vendors and Product Strategies
    - Enterprise Integration Strategies based on BPM languages
  - 9. USING ENTERPRISE ARCHITECTURE TO EVOLVE TO INTEGRATED ENTERPRISES FOR THE 21ST CENTURY**
    - What is missing from technologies above, and what is the potential if we include it?
    - What business imperatives must the 21st century enterprise adopt to succeed?
    - What is Enterprise Architecture (EA) and how can it help Enterprise Integration?
    - Who are the real Architects and what is their impact on Enterprise Architecture?
    - How do these technologies work with EA to deliver real-time Enterprise Integration?
    - What are the Criteria for Success?
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# Clive Finkelstein

Clive Finkelstein is acknowledged worldwide as the "Father" of Information Engineering, and is Managing Director of Information Engineering Services Pty Ltd in Australia. He has over 46 years' experience in the Computer Industry. He has published many books and papers, and contributed Chapters and Forewords to books published by McGraw-Hill and Springer-Verlag. Clive has authored the following books:

- *"Information Engineering"*, James Martin and Clive Finkelstein, Savant Institute, Carnforth: Lancs UK (1981). This was the book that started the Information Engineering Revolution in the 1980's.
- *"An Introduction to Information Engineering"*, Clive Finkelstein, Addison-Wesley, Sydney: Australia (1989). This book covers the history and evolution of Information Engineering.
- *"Information Engineering: Strategic Systems Development"*, Clive Finkelstein, Addison-Wesley, Sydney: Australia (1992). This is the "how-to" book on using Information Engineering.
- *"Building Corporate Portals with XML"*, Clive Finkelstein and Peter Aiken, McGraw-Hill New York: NY (2000). This book covers methodologies and technologies for Enterprise Portals.
- *"Enterprise Architecture for Integration: Methods and Technologies"*, Clive Finkelstein, Artech House, Norwood, MA (2006). This brings together the methods and technologies for rapid delivery of integration areas for the 21<sup>st</sup> Century enterprise. This course covers much of the material from this book.

Clive Finkelstein is an internationally renowned consultant and instructor, and has completed projects for Defense, Government and Commercial organizations throughout the world and in most industries. The emphasis of these projects has been to bridge from strategic business plans to information systems, so aligning systems closely with corporate goals. Many projects have involved the *Zachman Framework for Enterprise Architecture*, using the latest methods and technologies for rapid delivery of priority areas into implementation. These methods use Enterprise Engineering for rapid definition of Enterprise Architecture. His technology focus addresses Enterprise Integration technologies using XML, Enterprise Application Integration (EAI), Enterprise Portals, Web Services and Service-Oriented Architecture (SOA) for Business Process Management (BPM) using XML-based BPM languages.

His application of these methods in large and medium Government, Defense and Commercial enterprises results in *Business Transformation Enablement*, so that business and IT managers and their staffs can plan for and achieve rapid business change. Enterprise Architecture provides a Governance Analysis Framework that supports Sarbanes-Oxley and other Governance Audit requirements. It provides direct support and linkage to Balanced Scorecard for Strategy-Focused Organizations, to ensure that IT systems and databases support defined scorecard strategies and governance requirements.

He provides training and consulting in all aspects of the Zachman Framework for Enterprise Architecture, with rapid delivery of priority areas using Enterprise Engineering. During implementation he also moves organizations to rapid implementation using XML, Enterprise Portals, Web Services and BPM. These provide a central gateway to the information and knowledge resources of an enterprise on its Intranet and via the Internet. Enterprise Architecture, Enterprise Portals, Web Services, SOA and BPM will be key development methods and delivery technologies for most enterprises in the 21<sup>st</sup> century.

Clive writes a monthly online column titled: *"Web Services for the Dynamic Enterprise"* for the B-Eye Network Online magazine in the USA. He also publishes a free, quarterly technology newsletter via email: *"The Enterprise Newsletter (TEN)"*. Past issues of TEN are available from: <http://www.ies.aust.com/>. Click on the *Papers* link. His books, papers and projects are summarized at <http://www.ies.aust.com/~ieinfo/cbfindex.htm>. He can be contacted at <[cfink@ies.aust.com](mailto:cfink@ies.aust.com)>. Many in-house skills-transfer courses and webcast seminars presented by Clive Finkelstein are at <http://shop.ies.aust.com/>



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