XML A2A Architectures

*Experience genuine's training sessions
that go beyond standard course content*

About Genuine

We design and conceive tailor-made solutions in the area of B2B connectivity and integration. Both are key technologies that create added value in terms of improved business results. These business results can be translated into increased profitability, sales volumes, quality, reduced costs and improved risk management. Furthermore, our background enables us to seamlessly combine legacy technology with cutting edge concepts such as webServices and OOAD approaches

Based in Brussels, we rely on consultants and trainers that are well-versed in explaining complex matters in a down-to earth approach that will give you the necessary awareness of what exactly XML, UML or Middleware solutions can offer to your organization. Our consultancy services cover a broad scope of these next-generation topics and we make sure that our project knowledge is quickly translated into valuable training course material.

As we move into an era where web Services are key, you'll want to know exactly how to prepare to keep a competitive edge upon your business partners. Does it need emphasis that modeling is essential for an enterprise? We are confident that our genuine training offerings can give you the competitive edge that leaves others staring behind.

Approach

Lots of training courses face similar problems: out-of-the book material is given without making the link to real-world usage of the technology. Genuine's Biztalk training material is based on project experience and offers a varied approach that will keep you focused by alternating between theory and practice. Several case studies further ease assimilation of the treated subjects by offering tangible examples.

How you will benefit

Genuine's XML for A2A course is unlike any other XML training because of the project knowledge involved. While it is true that technical details often make cutting edge technology hard to swallow for newcomers, we constantly shift between theory and practice to put the concepts in a real-life situation.

Examples gathered from multiple solutions implemented at our customer base are easily recognizable by every participant. This no-nonsense approach assures an experience that is based on facts, something which is very important in the fast evolving e-landscape.

You will learn the advantages webServices can offer to your organization, examine the essential steps towards a more competitive infrastructure and make the right choices between different middleware applications.

Course Details

Target Audience: consultants, technical project managers, system engineers.
Prerequisites: basic windows and XML knowledge.
Note: courses available in-house; course available in Dutch, French and English.

Following tools are for demo purposes only. They will put the examined subjects into perspective, but no technical knowledge concerning these tools is required.

Tools usage

- Internet Explorer,
- SOAP toolkit,
- XMLSpy,
- Java and Microsoft toolkits,
- Demo's using Biztalk and webMethods.

Package 1

Introduction
- Why application-to-application?
- e-Commerce categories.
- The webservices model.
- Evolution of webServices

Internet Transport Protocols
- Overview of SMTP.
- HTTP usage.
- File transport through FTP.
- Message Queuing for reliable transport

E-commerce standards
- Importance of standards.
- EDI and internet EDI
- Electronic Commerce Modeling Language (ECML)
- eBusiness XML (ebXML)

SOAP Basics
- SOAP messages.
- Body, Header and Envelope specifics.
- SOAP and RPC.
- Tools: the SOAP Toolkit 2.0.
- SOAP in action

WSDL (Web Services Description Language)
- What is WSDL?
- Why do we need WSDL?
- Syntax elements, Port types and Bindings.
- Protocol Bindings.
- WSDL in action

Package 2

UDDI (Description, Discovery and Integration)
- Usage of UDDI.
- The UDDI API.
- Relationship between UDDI and WSDL.
- Related technologies: ebXML, JAXR and DSML.
- UDDI in action.
- Adding your business to the registry.
- tModels, Categories and Identifiers.

Application-to-Application infrastructures
- WWW servers and clients (http and html)
- XML and information exchange.
- Wireless Internet access (WAP, WML)
- Web shop front.
- N-tier architecture.
- Web servers.
- J2EE (JSP, EJB)
- Microsoft (COM, DCOM, DNA, COM+, C#)
- Databases: Relational and Hierarchical

XSL, XML, Schemas and Scripting combined
- The synergy of XML, XSL and ASP/JSP.
- Verifying the B2B agreement through Schemas.
- Schema usage in a SOAP message.
- Client-side and server-side processing.
- Transforming from non-XML to XML.
- Presenting data in a browser

Package 3

Total solutions in an A2A environment
- Platforms, architectures and components of different manufacturers.
- Microsoft .NET enterprise servers.
- Biztalk Server overview.
- webMethods Server overview.
- eCommerce implementation plan.
- Practical examples of SOAP, UDDI and WSDL combined

Security solutions
- Public key algorithms. (PKCS)
- Digital signatures.
- X509 V3 Certificate standard.
- Certificates en Certificate Authorities. (CA)
- Secure Sockets Layer. (SSL)
- Firewalls and Proxy servers.
- Wire level security.
- Message level security.
- Encryption of SOAP messages