Saturday Sept. 29, 2001
at MIT room 34-101

Understanding the Java Message Service
David Chappell & Rick Kuzyk

Overview

The Java Message Service is fast becoming a viable communications mechanism for doing business-to-business communications over the Internet in a secure, and reliable fashion. JMS is also becoming a required component of the J2EE platform specification. This in-depth technical discussion will make you an expert on JMS in a matter of a few hours. This session will cover the basic concepts of Message Oriented Middleware (MOM), and give an introduction to the JMS API's and message delivery semantics. Advanced topics such as JMS message acknowledgements, transactions, and integration with the Application Servers including the EJB 2.0 MessageDrivenBean will also be covered.

Seminar Topics

- An introduction to the JMS API's
- Building real live examples, based on the examples in "The Java Message Service" book.
- The publish-and-subscribe and point-to-point queuing models
- Asynchronous messaging concepts and synchronous request/reply
- JMS message delivery semantics
- EJB server integration including the EJB2.0 MessageDrivenBean
- Deployment considerations, including server clustering, security, and HTTP tunneling.
- Real World deployment scenarios
- Integration between modern JMS implementations and MQSeries
- Wireless messaging

Lecturers

David Chappell is co-author of the O'Reilly book on the Java Message Service and a leading authority on JMS. Dave is vice president and chief technology evangelist for Sonic Software, where he, as director of engineering, oversaw the design and development of SonicMQ, Sonic Software's JMS Internet Commerce Messaging System. He has over 18 years of industry experience building software tools and infrastructure for application developers. Dave has been published in Network World magazine and XML Journal and is currently writing a series of contributed articles for the Java Developers Journal.

Rick Kuzyk is Technical Evangelist for Sonic Software. His contributions include white papers, speaking engagements and building and maintaining a developer's portal centered on Java and e-business messaging. Rick has over 16 years of experience in the software industry that includes time spent in areas of application development, education, sales and marketing.

Session Chair: **Peter Mager**

Seminar Book Offer:
Java Message Service
by: David A. Chappell , Richard Monson-Haefel, Mike Loukides
Publisher: O'Reilly & Associates
List: $34.95 PDS Price: **$25.00**

Saturday Oct 20, 2001
at MIT room 34-101

Voice XML
Ken Abbott & Dennis McCarthy

Overview

VoiceXML represents the convergence of speech and web technologies. On one hand, it will significantly reduce the amount of time and effort needed to develop and deploy speech applications, because developers can use the same technology that they use for web sites. On the other hand, VoiceXML makes it possible to "voice-enable" web sites. People will no longer need a computer with an Internet connection in order to access the information and services provided by a web site. The ordinary telephone can become the Internet appliance for the rest of us.

This seminar is designed for a technical audience with a general knowledge of web application development. It does not assume any background in speech technology.

Seminar Topics

- History and Status of VoiceXML
- VoiceXML Concepts and Language Elements
- Speech Recognition Grammars
- Speech User Interface Design
- VoiceXML Development Tools and Deployment Platforms
- How to dynamically generate VoiceXML and grammars using JSP, XML, and XSL
- Architectures for Adding VoiceXML to Web Applications (HTML, voice, WAP)

Lecturers

Ken Abbott is an independent software architect and consultant in the Boston area. His clientele ranges from Fortune 50 companies to .com startups. Recently, his practice has focused on application of Java 2 Enterprise technologies to business applications. Before entering private practice, he was Technical Director at XSoft, a division of Xerox, where he led the development of the InConcert workflow software product. He is a Sun Certified Enterprise Architect, an IBM Certified Solutions Expert, and a Microsoft Certified Systems Engineer. He also is the author of "Voice Enabling Web Applications: Voice XML and Beyond."

Dennis McCarthy is a Senior Technologist at Verizon Information Technology (formerly GTE Laboratories). He represents Verizon in the VoiceXML Forum, and has organized the Boston VoiceXML User Group. He is currently working on alternative means of access to the Web, such as PDA's, WAP, and voice. His previous work was in database management at CCA, and in workflow management at Xerox. He has worked as both a research scientist and product developer. In 1996 he founded WebTech, which is now a chapter of the ACM.

Session Chair: **Peter Mager**

Seminar Book Offer:
Voice Enabling Web Applications: Voice XML and Beyond
by: Kenneth Abbott
Publisher: A-Press
List: $34.95 PDS Price: **$25.00**

Saturday Nov. 17, 2001
at MIT room 34-101

Microsoft .NET
David Platt

Overview

.NET is a new business strategy from Microsoft as well as an upcoming operating system environment, aimed at a convergence of personal computing with the Web. .NET is both an evolution of existing Microsoft architectures and a radical migration to encompass more computing platforms than the existing Windows platforms.

A pyramid structure will be used to cover each topic, introducing simpler, conceptual material first, then progressing to technical details. There will be a minimum of jargon, a maximum of wit, a multitude of detailed diagrams, and a wealth of meaningful analogies and clear explanations. By the end of this illuminating walkthrough, you'll know enough about this exciting Internet development platform to plan for the future. You can't escape .NET no matter what platform or operating systems you are using.

Seminar Topics

- **The .NET Framework**
  - Problems of the distributed computing world and of current distributed programming environments
  - Architecture and components of Microsoft .NET
  - Object-oriented programming features of .NET
- **ASP.NET**
  - Generating and publishing an ASP.NET project in Visual Studio
  - Control-based programming of .ASPX pages
  - Security of ASP.NET applications
- **Web Services**
  - Using XML and HTTP as a common denominator
  - .NET object accessible through Web protocols
  - HTTP GET, HTTP POST, and SOAP
- **Windows Forms and ADO.NET**
  - Writing rich user interfaces using the .NET Framework
  - Accessing databases in the .NET Framework
  - Serializing data to and from XML

Lecturer

David S. Platt is the President of Rolling Thunder Computing. His latest book, Introducing Microsoft .NET from Microsoft Press is Microsoft's lead book on that topic. It is currently outselling Tom Clancy's The Bear and the Dragon on amazon.com, which tells you what kind of geeks buy their books there. He taught computer science at Harvard University for 9 years. He currently teaches .NET and XML at public seminars and in-house at companies all over the world. He publishes "ThunderClap", a quarterly newsletter on .NET development, available free from his Web site, www.rollthunder.com. He is also the author of many articles on .NET and COM in MSDN Magazine. "He's the only guy I've ever known that can actually make an article on COM's apartment threading model funny," says one client.

Session Chair: **Jay Conne**

Seminar Book Offer:
Introducing Microsoft .NET
by: David Platt, Keith Ballinger
Publisher: Microsoft Press
List: $29.95 PDS Price: **$20.00**

General Information

Schedule
8:30-9:00am Registration
9:00-12:15pm Morning session (break at 10:30am)
12:15-1:30pm Lunch (provided on-site)
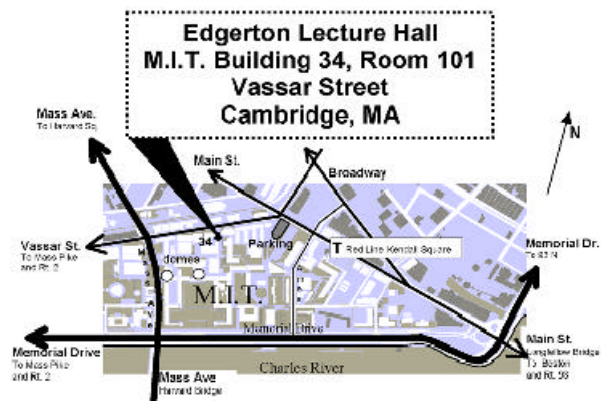1:30-4:30pm Afternoon session (break at 2:30pm)

Registration Fees

Seminar materials, lunch, and refreshments are included in the $80 fee. Registrants not current members of the GBC/ACM are charged an additional $10, and become members of the chapter for a year. This is distinct from ACM membership. Surcharge for on-site registration is $10. Purchase orders, credit cards, faxes and e-mail cannot be accepted.

Enrollment is limited and on a first-come, first-served basis. Early registration must be made by a check or money order at least three weeks in advance of the seminar to receive confirmation from GBC/ACM.

Cancellation & Refund Policy

Cancellations must be received in writing. The full seminar fee will be refunded if the PDS Registrar receives written notification before the start of the seminar. Refund requests received after the seminar date will be subject to a $15 administrative fee. The $10 membership fee will not be refunded.

**Edgerton Lecture Hall
M.I.T. Building 34, Room 101
Vassar Street
Cambridge, MA**

Building 34 is located on Vassar Street about half way between Main Street and Massachusetts Ave. It is a small square building turned 45 degrees to the street so it may look like a diamond, especially with a glass atrium entrance. Building 34 is set back a few yards from the street and the line of other buildings. It is between buildings 36 and 38.

Parking:
There is free parking on Vassar Street all Saturday and there is a parking structure surrounded by a parking lot at the corner of Vassar and Main. The entrance to the parking lot and parking garage is located on Main Street.

Public Transportation:
Red line to Kendall Square. Walk west on Main Street to Vassar Street; Turn left on Vassar and walk half way to next light to building 34.

**"XML for Java Developers"
Mike Champion, R&D Specialist, Software AG**

**Thursday, September 13, 2001, 6:00 PM
Sun Campus, Burlington**

During this meeting Mike will discuss the relationship between XML and Java, and how, from a technical standpoint, XML documents are created and parsed in Java. We will look at both the DOM (Document Object Model) and SAX (Simple API for XML) models, and when each is appropriate. Mike will also discuss the Microsoft spin vs. XML reality, and talk about the numerous XML buzzwords.

Michael Champion is a Research and Development Specialist at Software AG, working out of Ann Arbor, Michigan. He graduated from the University of Michigan and did graduate study specializing in data analysis and computer simulation of international conflict. He has been a software developer in the USA for 20 years, working primarily in the area of middleware for client-server document and image management systems. He has been active in the World Wide Consortium's Document Object Model (DOM) Working Group for more than three years and was a principal author of the core XML portion of the DOM Level 1 Recommendation

Champion joined Software AG in early 1999 and now works in the Technology Enablement group, focusing on technical business development activities, writing articles on XML technology, and building example integrations between XML applications and Software AG's database and enterprise integration products. He continues to be active in the W3C DOM working group as well as the W3C XML Protocols working group.

President's Letter

We at GBC/ACM hope you are surviving the current dot-bomb era without too much trouble. We can't offer assistance with employment, but what we can offer is numerous free and cheap sessions where you can keep in touch with the latest technology, and network with your peers. If you are currently on involuntary vacation, sharpening up your skills is probably a wise use of time.

Watch your mailbox and www.gbcacm.org for details on the fall PDS series. We will be having more Java, a different twist on XML, and .NET.

If we are not offering seminars that tell you what you need to know for your current (or next) job, please let us know! Contact me (byrd@acm.org) or Peter Barzdines (peterbar@world.std.com) or any other GBC/ACM volunteer if you would like to help us set up future sessions.

> Jim Byrd
> President, GBC/ACM

**"Bioinformatics and Genomics-Based Drug Discovery"
Tim Clark, VP Informatics, Millenium Pharmaceuticals**

**Wednesday, September 12, 2001, 6:00 PM
Volpe National Transportation Systems Center, Cambridge**

In 2001 with the first draft of the human genome, bioinformatics has become central to the practice of early-stage pharmaceutical research. It is only through bioinformatics that we may begin to make sense of the genome, integrate it with other information, or use it to inform the development of new therapeutic agents. Bioinformatics is generally considered to be the integrated application of biology, applied mathematics and computer science to functional genomics, proteomics and drug discovery.

These developments occur as the pharmaceutical industry faces an enormous productivity challenge. Current drug discovery and development methods result in an average cost of $500 million per new drug introduced to the market. At the same time, some industry analysts believe that new, genomics-derived drug targets may require even more investment to develop.

Can bioinformatics contribute to a solution? What are the key problems in the field today? How is bioinformatics related to chemical and medical informatics, and how are these relationships going to change in the new genomics paradigm? Is it possible to reduce the cost and time to market of new drug therapies dramatically using bioinformatics methods?

Tim Clark is Vice President of Informatics at Millenium Pharmaceuticals in Cambridge, MA, where he leads work in biological and chemical informatics. He has worked in large-scale software engineering and software architecture for 24 years, half that time in bio- and chemi-informatics. Prior to joining Millenium, Mr. Clark played a leading role in developing GenBank, the public database of DNA sequences at the National Center for Biotechnology Information.

This talk will be the first in a monthly series of meetings on bioinformatics to be jointly sponsored by the IEEE Control Systems Society, the IEEE Computer Society and the Greater Boston Chapter of the ACM. This introductory talk will outline tentative answers to the above questions as it briefly surveys some critical problems and techniques in the field. Emphasis will be placed on fundamental biological grounding rather than detailed algorithmic techniques, which will be addressed in future talks in this series.

The Boston Chapter of the IEEE Control Systems Society along with the Computer Society will meet at 6:00PM on 12 September 2001at the U.S. Dept. of Transportation, Volpe National Transportation Systems Center, Broadway St., Cambridge, MA. Parking is generally available on the small street behind the Volpe Center (check with the guard inside if you need assistance), or take the subway to Kendall Square/MIT stop (on Main St.) just around the corner from the Volpe Center. The small parking lot in front of the Volpe Center is closed to the meeting (closes at 6:00PM).

Light refreshments will be available at 6:00PM; the talk will begin at 6:15PM. Optional (you pay) dinner with the speaker may follow at restaurant nearby. For more info contact either George Anagnostopoulos (*Anagnostopoulos@volpe.dot.gov*) or Allan Kleinman (*akleinman@drc.com*).

From the Editor...

I hope that the summer was a pleasant one, economic downturn aside, and am excited to embark upon a new year for the GBC/ACM. We are greeted by another PDS series, beginning September 29th, that promises to build upon the already high standard that has been set by our previous seasons. Further, the monthly meeting series continues to offer more fascinating topics this fall, including Donald Eastlake this month on XML Security, and Jamie Hicks next month talking about Compaq's iPAQ research computer. Clearly there is plenty here about which to be anticipant!

-Jason Bressner

Miss some of our monthly meetings?
Broadcasts are now offered on the Web!

Visit *http://www.technetcast.com/tnc_catalog.html?item_id=583*

Websites of some Local Groups

GBC/ACM

www.gbcacm.org

SIGGRAPH

www.siggraph.org/chapters/boston

SIGCHI

www.xensei.com/gbsigchi

WebTech

www.acm.org/chapters/webtech

SPIN

www.cs.uml.edu/Boston-SPIN

IEEE

www.ieee-boston.org

IEEE Consultants Network

www.boston-consult.org

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Seminar / Book Titles	Advanced Registration	Walk In	Amount
Understanding the Java Messaging Service	$80	$90	
Java Message Service	$34.95	$25	
Voice XML	$80	$90	
Voice Enabling Web Applications: Voice XML and Beyond	$34.95	$25	
Microsoft .NET	$80	$90	
Introducing Microsoft .NET	$29.95	$20	
GBC ID # (required)		$10	
International ACM # (If you are a member)		Total	

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Date of event	Page	Sponsor	Location
September 12	3	IEEE Control Systems	Volpe NTSC
September 13	6	NEJUG	Sun Burlington
September 20	1	GBC/ACM	IBM Waltham
September 29	4	GBC/ACM	MIT
October 20	4	GBC/ACM	MIT

If the top line of your mailing label below reads **EXPIRED**, please renew your membership (for just $10/yr). For that $10 you get a copy of this newsletter/local event calendar mailed to any address you choose plus the right to attend PDS seminars at the member rate. Please consider renewing for more than one year at time. Your support helps make possible the wide array of GBC/ACM activities.

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The
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GBC/ACM September Meeting
Thursday, September 20, 2001, 7:00 PM
IBM Solution Partnership Center

"XML Security"
Donald Eastlake
Motorola

XML is becoming increasingly popular and being used for a wide variety of applications. Standards are being developed and implemented for digital signature and encrypted data constructs in XML syntax. An overview will be given of these rapidly emerging standards and the special problems presented by using XML. Along the way, it will be explained why, in real world security systems, authentication is harder to get working reliably than encryption.

Donald Eastlake is a member of Technical Staff at Motorola, the co-chairman of the joint IETF/W3C XML Digital Signature working group, and a participant in the W3C XML Encryption working group. He was one of the principal architects of DNS Security and is also chair of the eCommerce oriented IETF TRADE working group.

Before Motorola, Donald worked at IBM, CyberCash, Digital Equipment Corporation, CCA, and MIT. He has over 35 years of experience in the information technology field.

Directions to the meeting site:

From: The north
1. Take Route 128 (I-95) south.
2. Take Exit 28 (Trapelo Road/Belmont).
3. Make a left turn onto Trapelo Road (off exit ramp).
4. At light, make a right turn onto Smith Street (Smith becomes Wyman).
5. Proceed .50 miles.
6. Turn right into 404 Wyman Street, north entrance.
7. Free parking is available.

From: The south
1. Take Route 128 (I-95) north.
2. Proceed as from the airport (beginning with 4th bullet).
3. Take Exit 28A (Trapelo Road/Belmont).
4. At light, make a right turn onto Smith Street (Smith becomes Wyman).
5. Proceed .50 miles.
6. Turn right into 404 Wyman Street, north entrance.
7. Free parking is available.

There are more directions and a map at:
http://www.developer.ibm.com/spc/spceinfo.htm