



edge-ucation*

* the cutting-edge **technical** sessions and labs offered only at IBM Impact 2007



* technical track sessions

The technical agenda for Impact 2007 will include over 300 unique sessions that are targeted at the developers, architects, administrators and integrators of IBM WebSphere® and IBM CICS® family of products. These sessions will include current information, tips and techniques grounded on best practices for developing and managing the WebSphere and CICS enterprise environment. These sessions will feature the very latest WebSphere and other IBM products and technologies that power service oriented architecture (SOA).

Sessions will include the following types:

- Latest product updates from the IBM development teams
- Technical product overviews
- Advanced product details
- Best practices developed by experienced practitioners
- Hints and tips from product support
- Case studies
- Panel discussion
- Hands-on labs
- Meet the experts

Session will include introductory, intermediate and advanced material, with an emphasis on technical educational sessions for the experienced user of the WebSphere family of products.

This conference will highlight emerging technology, as well as provide extensive coverage of core middleware technologies and products, with a technical focus on security, performance, administration and development.

Note: Content in this brochure is provided “as is” with no express or implied warranties of any kind. The brochure content is subject to change without any notice or obligation on the part of IBM. This is a partial view of the sessions that are planned for the IMPACT conference. More detailed information will be available on the Web site in the coming weeks. Be sure to visit ibm.com/software/WebSphere/events/impact2007/overview.html for the latest information.



* technical track sessions

Table of contents

application server

1

architecture

9

business process management

17

CICS and enterprise

25

development

28

messaging, integration and connectivity

33

portal and collaboration

44

security and management

47

The overall purpose of this sub-track is to demonstrate the skills that will enable you to manage and build a WebSphere infrastructure to support your business. This sub-track will include features, functions and futures sessions on all WebSphere Application Server editions, e.g., Network Deployment (ND) and Community Edition (CE). These topics will help you master techniques for efficiently administering the system using information gained in the different sessions provided.

Getting Started with Jython for WebSphere Application Server Scripting

The WAS 6.1 AST provides excellent aids to help create and debug Jython-based administration scripts, but assumes you already have some knowledge of Jython. In a mixture of slides and demonstrations this session takes an in-depth look at the Jython language, covers the AST Jython tooling, discusses integrating Jython with Java and WebSphere, defines the characteristics wanted in admin scripts, and provides some guidance for writing re-usable production-quality Jython administration scripts.

Entry skills

- Knowledge of WebSphere Application Server,
- A basic understanding of how WAS is administered,
- Basic knowledge of Java

Exit skills

- Understanding of the main features of Jython,
- Understanding of the rights and wrongs in writing admin scripts

WAS Administration Recommendations

This session will establish some good practices for configuring, running and managing WebSphere Application Server systems by considering the following questions: What are the typical administrative tasks in WebSphere Application Server V5.x and V6.x? What tools are available to perform these tasks? Which of these tasks can and should be automated? Where should administrative components be placed? What staffing and skills are needed to manage WebSphere Application Server? How can WebSphere Application Server be integrated with a service management solution such as Tivoli? This session will mainly be for system administrators and will cover the above topics at a relatively high level.

Build and Deploy Solution to WebSphere Application Server Community Edition

IBM WebSphere Application Server Community Edition (WAS CE) is based on the open-source Apache Geronimo project, providing a lightweight J2EE application server for certain development, testing, and production of dynamic Web solutions where the features and performance of the more advanced editions are not needed. This session provides an overview of WAS CE architecture along with many popular development frameworks such as Spring, Hibernate, and newly-introduced Java Persistence API. In the lab, you will use the Eclipse IDE in conjunction with Apache Ant to build, test, and deploy an AJAX-based Web application to the WAS CE environment running on Linux. You will also perform WAS CE installation, configuration, and many of the most important WAS CE administration tasks. This self-paced, hands-on lab demonstrates step-by-step application development and deployment with WAS CE.

Entry skills

- General knowledge of Java and Web Application
- Familiarity with Linux

Exit skills

- General knowledge of WAS CE
- General knowledge of open-source development frameworks and JPA
- Build and deploy Web application to WAS CE with Eclipse and Ant
- A basic understanding of the role of AJAX
- Ability to install, configure, and perform administration tasks on WAS CE

WebSphere AST, Introduction to Assembly, Deployment and Testing

This hands-on lab will explore the use of the WebSphere Application Server Toolkit (AST) as it is used for assembling an Enterprise Application from its components, deploying the application to a test server and testing to make sure the application installed correctly. Configuration of a JDBC provider, datasources and authentication alias is performed using AST. The application is deployed for testing as an Enhanced EAR file. Different areas of AST are discovered through exploration. AST's Jython development environment is introduced by writing and running a short script that installs an Enterprise application to the server.

Basics of WAS Administration

This session will cover the architecture of a WebSphere Application Server cell, including the Deployment Manager, node agents and application servers. The roles of the Deployment Manager and the node agent will be presented. The configuration repository will be described. The steps involved in building a cell will be outlined. The administration of a cell using the admin console and wsadmin will be described. The role of the WebSphere Application Server administrator will be defined. The basics of configuring J2EE resources and deploying J2EE applications will be described. Configuring WAS security will be touched on lightly.

Entry skills

- High-level knowledge of WAS

Exit skills

- Knowledge of how to perform basic administration of a WAS ND installation

Using Visual Configuration Explorer for Viewing Product Configuration

The Visual Configuration Explorer (VCE) in WebSphere Application Server delivers simplified viewing of complex product configurations, using topological and attribute style views within the Eclipse RCP environment. The relationship of configuration parameters within and between products can be viewed on a topology graph in VCE to allow customers to gain a better understanding of their installed environment. These views can be created and extended using templates provided with VCE. These templates allow the definition of relevant and related configuration parameters to enable a customer to quickly view all necessary, information for a given perspective. In this session, we will present the architecture of VCE and

demonstrate how it can be used to assist in problem determination and customer deployment issues. We will also discuss how to extend VCE to support additional products and how to develop templates to provide automated display of custom data relationships and views.

Entry skills

- Basic understanding of WAS and WAS administration

Exit skills

- Knowledge of how to leverage VCE to help manage WAS configurations in a complex environment

End to End Deployment Story

Application deployment has long been a problematic area for WebSphere; there are good tools for many parts of the process, but the tools are mostly unconnected to each other. The application server provides a scripting interface to facilitate unattended deployment, but there are very few tools or integration points that provide additional support for this. There are also significant limitations that impact the movement of applications from the development environment, through testing and into production. This session will present an end-to-end deployment tools strategy, that provides a roadmap for how the overall application deployment problem is being addressed. The strategy has been presented to customers at the zBLC and was extremely well received; significant parts of this strategy are being implemented in WebSphere 6.1, and 7.0.

WebSphere Ease of Use and Consumability — Update and Directions

In today's "on-demand" distributed environments, the continuing challenge is to reduce overhead, reduce complexity, and improve the time to value. This session will focus on the usability and consumability enhancements delivered within WebSphere Application Server V6.1 and WebSphere XD, specifically those delivered in V6.1 and those planned for the next release. We will also cover future directions such as WebSphere Features Packs and the delivery of incremental features. Attendees will understand the work done to improve product consumability, the immediate utilities and tools available, and finally the key focus areas being worked for the future releases. The session will discuss the WAS and WXD and how consumability efforts will also impact and improve the user experience with the larger WebSphere based solution. Attendees will understand where consumability improvements are being implemented, how this will improve our product(s) ease of use, and how customers can leverage these enhancements along with providing additional feedback regarding consumability.

WebSphere Administration Certification Test Preparation

IBM's certification program is a true measure of expertise. Educational sources, real-world experience and rigorous exams are all required to earn IBM's certification prestigious distinction. This presentation will discuss the value of IBM certification and provide hints, tips, and advice on how to prepare for taking the WebSphere System Administrator certification test. Approaches for self-study and recommended educational resources will be covered, in addition to highlighting test objectives and role descriptions.

WebSphere EJB3 Feature Pack and OpenJPA Performance

This session will introduce you to the WebSphere EJB 3.0 Feature Pack as well as give you an in depth look at how to develop, deploy, and administer applications using it. We will discuss various tuning options for both the EJB Container as well as for the Open JPA runtime. We will let you know how to extract every last ounce of performance from them for your applications.

WebSphere Feature Pack for Web Services

TBD

Advanced Topics in High Availability and Reliability with WebSphere Application Server

This session will focus on the architectural and operational issues that need to be considered when implementing a highly available or continuously available WebSphere Application Server infrastructure. Topics will include use of multiple data centers, Domain Name System (DNS), geographic separation constraints, supporting software components and other common deployment issues. While not a prerequisite, attendees should be familiar with the material covered in "An Introduction to WebSphere Application Server High Availability"

An Introduction to WebSphere Application Server High Availability

In order to create a fault tolerant environment one needs to understand high availability terminology and how WebSphere Application Server v6.x is architected to provide for Workload Manager (WLM), failover and high availability. This session will cover what WebSphere Application Server provides in these areas and will briefly discuss additional components and software that may be required for highly available deployment architecture. WebSphere XD V6.x functions that enhance the features available in WebSphere Application Server ND will be discussed as well.

IBM Installation Factory for WebSphere Application Server

Installation Factory creates turn-key install packages for installing WebSphere Application Server in a reliable and repeatable way, tailored to the user's specific needs. This session will demonstrate how Installation Factory enables the end user to build customized re-usable and portable packages, made up of install images, maintenance packages, configuration archives, enterprise applications, and scripts.

Entry skills

- Basic knowledge of WebSphere Application Server administration.

Exit skills

- General knowledge of Installation Factory and its benefits to WebSphere Application Server administration.

WebSphere Application Server for i5/OS Overview and What's New

This overview session introduces WebSphere Application Server from an i5/OS perspective. You will learn what is different about the application server for i5/OS along with several System i5 specific integration projects related to WAS that were delivered late in 2006.

Entry skills

- Basic knowledge of WAS

Exit skills

- Knowledge of WebSphere Application Server specifics for i5/OS and recent product enhancements.

WebSphere Application Server Migration: Tips and Techniques

Migration from one version of WebSphere Application Server to another has been a steadily improving story. This session will present strategies on planning and commonly used techniques and best practices. Very detailed information will also be provided on what changes may be required for wide variety of combinations of WebSphere Application versions, including v6.1.

Entry skills

- General knowledge of WebSphere Application Server,

Exit skills

- A thorough understanding of Migration challenges and some possible solutions.

New Features In WebSphere Application Server V6.1

TBD

Rational Performance Tester Product Update

Rational Performance Tester is IBM's newest load testing solution. This eclipse-based tool provides complete Web-based system performance testing. Significant features include automatic test recording and generation, adaptive test playback without programming, customizable reports, and integrated resource monitoring and transaction breakdown analysis.

This session will discuss the latest features and enhancements for the Rational Performance Tester 7.0 product, released in January 2007. The speaker is the RPT product champion and a member of the RPT development team. He will cover the basics of the product, new features and overall enhancements, and give special focus to performance testing in the SOA space.

Entry skills

- General knowledge of Performance Testing and Automation Tools

Exit skills

- Understanding when and how to apply RPT to performance tuning projects
- Understanding of the performance analysis functions including ITCAM integrations

WebSphere JVM Tuning Best Practices—Lab

This hands-on lab will demonstrate best practices for tuning WebSphere Application Server (WAS) JVM for maximum performance. The session will provide in depth knowledge of internal workings of IBM and Sun JVM's garbage collection process with emphasis on solving garbage collection, memory leaks, and hang problems. You will learn techniques of debugging performance problems in production environments using very light weight tools and a proven methodology. This session is targeted towards WAS system admins, software developers and application architects who are responsible for testing and debugging the application during the post development phase.

Learning objectives

- Understand IBM and Sun JVM garbage collection
- Specific tuning advice based upon large WAS deployments
- Tuning and problem determination methodology
- Useful tools for debugging memory and hang problems
- Memory Dump Diagnostic for Java, Extensible Verbose GC Toolkit

WAS 6.1, Feature Packs (WS, SOA, EJB), and WebSphere CE Performance

TBD

Understanding and Optimizing the JVM for WebSphere

Have you ever been curious exactly how the JVM functions underneath WebSphere or how you can tune it and use the information it provides to get the most out of your applications? In this session will explore what the JVM does as it resides underneath the WebSphere runtime. It will look at how it performs garbage collection, memory management, heap compaction as well as many other advanced features. Also, this session will take a look into how to configure the JVM for maximum performance, and give the attendee a laundry list of tuning parameters for both the IBM and Sun JVMs (1.4.2, and 1.5) that will benefit their WebSphere runtime. To extract the best performance from your J2EE application, you need to understand how the JVM performs its tasks and how to tune it to perform best for your specific workload. This session will unveil the inner workings of the JVM.

WAS Advanced Performance: 64-bit, Multi-core, and Real-Time Java Platforms

WAS introduced support for 64-bit platforms in V6. These and future WAS platforms will support 64-bit processors from Intel, AMD, IBM and Sun. Each 64-bit design provides many performance enhancements including extra hardware registers and 64-bit precision computations. Applications that leverage these features can see significant performance gains on 64-bit hardware, but there can be a downside for 64-bit in particular situations. Multi-core processors are capable of providing the ultimate in powerful, dense and energy efficient servers. However, they do have different performance characteristics, as well as measurement nuances. There is also a move afoot in the industry towards real-time behavior and WAS is no exception. Clearly the performance characteristics of a soft real-time application server are important and have new aspects. Detailed analysis including performance measurements, JVM statistics and more will be provided using the latest hardware and WAS versions.

Entry skills

- General knowledge of J2EE, WebSphere Application Server
- Basic understanding of J2EE application development and deployment

Exit skills

- Knowledge of Java technology based enhancements for 64-bit, multicore and soft real-time platforms
- General knowledge of WebSphere Application Server performance on 64-bit and multicore platforms
- General knowledge of performance characteristics of SIP-based and other soft real-time applications on WebSphere Application Server
- An understanding of the factors to consider while deciding to migrate from 32-bit platforms to 64-bit platforms and the performance expectations

IBM Java 5 Garbage Collection: from theory to practice

Garbage collection (GC) is central to the Java language, and a critical component of high performance Java applications. This session will describe the IBM JDK 5.0 GC algorithms, how they adapt to changing workloads, and provide guidance interpreting and visualizing GC data. Come to this session to learn how to improve overall application behavior, including performance, be it throughput or responsiveness, and footprint, as well as how to analyze performance characteristics and respond to performance data. We also introduce the Extensible Verbose ToolKit (EVTk) to facilitate visualizing and analyzing relevant GC data. Finally, we discuss future directions that the GC will explore, including realtime and soft realtime applications.

WebSphere Performance Fundamentals

TBD

Advanced tuning tips and techniques

TBD

Optimizing WebSphere on AIX

Optimizing WebSphere on AIX This session will discuss how to optimize and improve any application's performance for running on AIX. Garbage collection policies, JIT options, OS tuning, plus other features that are unique to running WebSphere on AIX will be covered.

Entry skills

- General knowledge of WebSphere Application Server administration and problem determination

Exit skills

- Improve application performance through tuning AIX and the JVM.
- Improve application performance by utilizing large pages.
- General understanding of AIX's advanced virtualization features.

DTFJ: a new breed of tools for problem determination

DTFJ (Diagnostic Tooling Framework for Java) is a new technology and an emerging standard, initially developed for IBM JDKs, to facilitate problem determination and introspection of JVMs. The Java Technology Center, WebSphere Serviceability Team and several other teams, are collaborating to construct a family of problem determination tools based on DTFJ technology. These tools form the base of an extensible infrastructure to help diagnose problems that occur in various products built on top of a JVM, such as WebSphere Application Server. Additionally, these tools can be used as first level diagnostics tools specific to the JVMs themselves. This session will focus on the basics of the framework for the tools already available today, and show how to use them in practical situations, including examples of use in WAS-specific scenarios as well as general Java problem determination scenarios (such as deadlock detection and first stage crash analysis).

Entry skills

- Basic knowledge of Java, JVMs, etc.
- Basic knowledge of WebSphere system administration and/or problem determination

Exit skills

- Participants will be able to use new DTFJ-based tools to troubleshoot various problems in WebSphere and the JVM
- Participants will be able to write their own DTFJ-based tools or extend existing DTFJ-based tools to solve specific problems

Leveraging WebSphere Application Server Tools to Solve Production Problems

Uncovering and fixing production application problems are difficult for customers to do. Third party tools used to find these problems are often intrusive and affect the performance of these systems significantly. The WebSphere Application Server Problem Determination tools provide a non-intrusive way to pinpoint and fix problems. This lecture provides a methodology for solving production application problems using WebSphere Application Server integrated tools and the new IBM Support

Assistant (ISA) tools. The methodology explains how to identify symptoms for common problems, what tools to use to determine a root cause, and finally how to fix the problem. The types of problems discussed include: a memory leak, poor connection management, thread deadlocking and incorrect classloading and others. The tools include: IBM Guided Activity Assistant (IGAA), Memory Dump Diagnostics for Java (MDD4J), Connection Manager Diagnostics, ThreadAnalyzer (TA), and a Classloader Viewer (CLV).

Understanding WebSphere Classloaders: Best Practices for File Placement

Classloaders are probably one of the most problematic pieces of Java and J2EE today. This presentation explains how classloaders work, and how they affect where you should deploy your application code and utility classes. During the presentation, live demonstrations will be provided as different strategies are presented. J2SE classloaders will be explained followed by WebSphere Application Server specific classloaders, and finally demonstrations of the classloaders' behavior. This presentation applies to WebSphere Application Server 5.x and 6.x.

WAS Security — Infrastructure Hardening

When deploying WebSphere Application Server (WAS), there are a number of security-related activities that must be undertaken in order to create a truly secure WAS environment. A "Default" WAS configuration is not particularly secure. This session outlines the weaknesses in a default configuration and lists the specific actions that an administrator should take to create a hardened security environment. This presentations will cover topics such as: protecting the WAS admin infrastructure, running WAS as non-root, securing the various WAS communication channels, using a DMZ, protecting important files, 3rd-party security integration, as well as some advanced issues. Updated for WAS V6.1!

Entry skills

- Basic knowledge of WebSphere Application Server concepts

Exit skills

- A general understanding how to create a secure WAS environment

WebSphere Application Server Security: Certificate, Key, and SSL Management

WAS V6.1 introduces some new and powerful functionality for creating and managing certificates, key stores, and SSL. This radical departure from the previous model should dramatically simplify security management, but it's all new. This presentation will describe what it does. As for the abstract, please add these entry/exit skills.

Entry skills

- Familiarity with basic certificate and SSL concepts
- Familiarity with WAS security configuration

Exit skills

- An understanding of how to manage certificates and SSL in WAS V6.1

WebSphere Application Server Security: Programming Hints and Tips

This session discusses a number of commonly encountered application development challenges that are related to security. Items covered include authentication errors, server-side authentication, JCE/JSSE usage, and more.

Entry skills

- Java programming
- Basis understanding of WAS security

Exit skills

- Understanding how security application programming can improve performance

Federated User Repository in WebSphere v6.1

Virtual Member Manager is a new feature in WAS v6.1 that allows for a federation of multiple independent repositories into a single virtual realm. This session will provide an introduction to the new capabilities provided by VMM, as well as an overview of how to configure it to include file, database and LDAP repositories.

Entry skills

- General Knowledge of WAS Security and LDAP

Exit skills

- A good overview of the capabilities of VMM
- Enough information to begin to configure it
- Tips on where to get further details

WebSphere Application Server Security: Performance

This session will discuss the cost of enabling security and explore various options for improving performance through configuration, cache tuning, and directory access tuning.

Entry skills

- Basis understanding of WAS security

Exit skills

- Understanding of on how configuration and tuning impact WAS performance

Securing WebSphere Application Server with Firewalls

While firewalls alone are not sufficient for securing WebSphere Application Server (WAS), they are an important part of an overall security hardened deployment. This session will discuss firewall placement and configuration within a WAS V6.x. and it will provide guidance on when and why firewalls provide valuable cover as well as include cases where firewalls do not provide any value. Since the specifics of configuring individual firewalls vary by product, the session will cover the general configuration (e.g. ports to be opened), and will not cover any specific firewall product.

Entry skills

- An understanding of firewalls and basic WAS security

Exit skills

- Understanding the use and misuse of firewalls in WAS

WS-security and Policy Set Function in Feature Pack

TBD

Introduction to SIP

WebSphere Application Server 6.1 introduced a significant amount of Session Initiation Protocol (SIP) infrastructure. This SIP infrastructure may be used in the telecommunications industry as well as throughout any enterprise as communications move to IP and become more intelligent. This session introduce the audience to SIP, JSR 116 SIP Servlets, the WebSphere implementation of JSR 116, the WebSphere SIP high availability topology with the stateless SIP proxy, and the future of SIP and SIP Servlets (JSR 289).

Entry skills

- Basic java and WAS knowledge

Exit skills

- An understanding of how to use SIP in WAS environment

Using IBM Support Assistant to Solve Software Problems

This session demonstrates the features and value of IBM Support Assistant (ISA). The session will emphasize how a fictional customer works through common software challenges and uses ISA to find sound solutions and resolve their problems. Through the customer scenarios, ISA features such as integrated search, key product information links, automated data/trace gathering and serviceability tooling will be presented. This session will also introduce ISA as an essential part of the SWG serviceability vision.

Using WebSphere with VMware

This session examines how WebSphere can be used in conjunction with VMware or similar virtualization technologies (XEN, etc) to simplify common WebSphere scenarios, from development through production. We'll look at how to deploy and use WebSphere and VMware together at each stage in the lifecycle. We'll also provide several case studies of successful use of VMware in both development and production. Performance best practices and deployment tips and techniques will be provided.

Entry skills

- General knowledge on WebSphere Application Server
- A basic understanding of virtualization technology,

Exit skills

- A basic understanding of using WebSphere and VMware together for: server containment, rapid deployment, change management
- Tips and techniques for deploying WebSphere and VMware

Virtualization with Linux for System z

Enterprises are moving applications from tens or hundreds of physical servers over to virtual Linux server on System z. This session explains how virtualization works with Linux for System z, and how it is possible to define hundreds of virtual CPUs without needing hundreds of physical processors.

Entry skills

- General knowledge of WebSphere Application Server on Linux on distributed platform,
- General knowledge of Linux

Exit skills

- General knowledge of WebSphere Application Server on Linux for System z
- An understanding of how virtualization works with Linux for System z

64-bit WebSphere Application Server on z/OS

WAS 6.1.0.4 is the first version on z/OS that supports 64-bit. This presentation will cover the benefits, features, system requirements, setup, startup, migration, restrictions and performance considerations of the 64-bit WAS.

WebSphere Application Server for z/OS Security Overview

This session will provide the foundation for understanding the various aspects of security in a WebSphere Application Server for z/OS environment. The topics covered will include authentication, authorization, confidentiality, security registries and configuration alternatives.

Why WebSphere Application Server on z/OS?

This session will point out the value of running WebSphere Application server on z/OS. It will cover the integration and exploitation features of the z/OS platform that z/OS customers expect and desire. It will also discuss situations where WebSphere for z/OS is a good fit and why and situations where it is not.

WebSphere Application Server for z/OS: Important Security Topics

This session will focus on the implementation of the security concepts discussed in the "WebSphere Application Server Security Overview". We will show how one actually implements authentication and authorization in WebSphere and how the security context established in WebSphere can be transmitted to other application environments such as CICS, IMS and DB2

It is a necessity to have a clear business strategy that links business goals with IT. There are many ways to get there. Understanding how a business works and setting priorities can help develop that business strategy. Any number of approaches can lead to the conclusion that SOA is needed. This track will discuss how getting started with SOA is easier with the IBM SOA Foundation—an integrated, open-standards-based set of software, best practices and patterns for SOA.

The IBM SOA Business Catalog: finding reusable assets to accelerate your SOA deployments

Reusing assets can save a company time, money, and development effort when deploying SOAs. This session will provide an overview of the IBM SOA Business Catalog, an online directory of SOA assets from IBM and SOA Specialty Business Partners, that can be used in SOA deployments. Attend this session to learn what kinds of assets are available for reuse, how they support SOA Foundation Products, and how to obtain them.

SOA Solution Designer Certification Test Preparation

TBD

WebSphere Commerce SOA Strategy

This session describes the technical strategy and roadmap for evolving WebSphere Commerce to participate within a Service-Oriented Architecture (SOA) - both a Web 2.0 Global SOA and an Enterprise SOA - as well as transforming the WebSphere Commerce server into a Service-Oriented Business Application (SOBA) with deeper exploitation of the SOA Foundation that enables multi-channel composite applications. Details about WebSphere Commerce V6 SOA features as well as planned incremental SOA enhancements to V6 will be covered.

ESB: from pattern to product suite.

The Enterprise Service Bus (ESB) concept has now become well established as a core architectural building block within a Service Oriented Architecture. In this session our goal is to give a crisp and clear description of the ESB concept, to define the pattern and expose the products supported such as WebSphere ESB, WebSphere Message Broker and WebSphere DataPower. We will discuss the capabilities and features of each and when to use them.

Entry skills

- A basic understanding of JMS or other messaging technology.

Exit skills

- A basic understanding of ESB component and patterns.

TurboCharging ESB Development using Second Generation Patterns

First generation patterns captured expertise in text form, allowing it to be passed on at human learning speeds and accuracy. Second generation “Pattern Implementations” exploit new Pattern Technologies to shrink-wrap expertise in custom tooling, enabling it to be applied to development tasks at compute speeds and accuracy. ESB Development is particularly well placed to gain from this area—much integration design can be built very naturally from patterns. Early experience shows large productivity gains, and significant quality improvements are easily achievable. In this session we will examine this new technology opportunity and its potential, and give practical examples of its application.

IBM FileNet P8 within an SOA Environment

Business Process Management (BPM) and Service Oriented Architecture (SOA) are complementary technologies that can help make IT more responsive to the business needs by delivering reusable business services and process management faster, resulting in business agility. We explore the similarities, differences, and synergies between BPM and SOA. We look at FileNet BPM Web services features and discuss how FileNet BPM can be leveraged in an SOA environment such as IBM WebSphere SOA.

IBM Software Strategy and Product Overview

TBD

Content Architecture and Strategy

Putting the management of enterprise content, such as documents, blogs, wikis, forms and Web content, in the hands of business users is critical to streamlining business processes and making the organization more responsive. In this session, we will describe the architecture and strategy behind IBM's content offerings, including "Geneva" and WCM, and explain how these offerings will help customers effectively manage and use content in support of their business goals.

Entry skills

- General Knowledge of one or more areas of content management,

Exit skills

- General knowledge of IBM's architecture, strategy and offerings for content management

Information in Your SOA: Creating SOA Services Around Integrated Information (product focus: Information Server)

This session details how to build reusable services around information. It includes a discussion of how to understand source system data to discover where to get the right information, along with techniques for cleansing and transforming data into a complete and accurate record. The session outlines how integrated information services can be quickly defined and deployed into application servers without extensive programming. The discussion also includes a description of how these services can be incorporated into new SOA business processes.

Creating Granular, Reusable Information Services with SOMA (focus on SOMA, Industry Models, Rational Data Architect, and Information Server)

This session details how IBM's Service Oriented Modeling and Architecture methodology can be employed to help identify and deploy reusable information services. The session will describe how techniques like business vocabulary management, industry model decomposition, and data profiling can be used to define services that provide a high impact, and that are at the right granularity to be likely to be reused within your organization.

Creating a Service-Oriented Dynamic Data Warehouse (focus on Information Server and WAREHOUSE 9)

This session details how your enterprise data warehouse or data mart can become a source of rich analytical information within your SOA. Topics for discussion include using a SOA to trickle feed your data warehouse, defining dimensions that provide high impact reusable SOA information, plugging warehouse information services into SOA business processes, and optimizing information access for SOA. Detailed customer case studies will be presented during this session, and best practices will be reviewed.

Master Data Management

Master data entities such as customer, product, account, etc play a critical role in any enterprise architecture, but particularly in a Service Oriented Architecture (SOA). A key characteristic of master data and its associated services is that they support multiple major business processes and represent frequently accessed services and data. Therefore, master data management is critical to the development of SOA. It provides a common source of accurate, consistent and comprehensive master information, exposed through consistent services that can be leveraged across business processes and applications. In this presentation, we will present general concepts and demonstrate the value in a case study around customer master data.

SOA as a Dynamic Information Infrastructure (focus: data and content servers, info platform, migrations/consolidations, and SAP information)

This session details how to design a dynamic information infrastructure using a SOA. Issues discussed include how to align your databases and content repositories within your SOA, how to build and deploy a reusable information platform within your SOA, and how to incorporate enterprise application data from applications like SAP R/3 into your SOA.

J2EE Application Architecture Using Patterns

TBD

Designing SOA Services with IBM Rational software Architect

This hands-on workshop introduces how you can use a Top-Down Model-Driven Development approach to modeling services using IBM Rational Software Architect. You will use service models represented at different levels of abstraction (Business Process, Unified Modeling Language (UML), Web Services Description Language (WSDL), and Java) and leverage Rational Software Architect support for visualization and transformation from one level of abstraction to the other. We also discuss the use of UML profiles for domain specific languages like Service-Oriented. Key to reaping the benefits of SOA is the reuse of existing assets. We show how to use existing design patterns to address requirements on your services. After going through this workshop, you should be able to design services in Rational Software Architect and use the capabilities at your disposal around UML profiles, design patterns, reusable assets, transformation, and Web services.

Introduction to IBM Rational RequisitePro

The IBM Rational RequisitePro solution is an easy to use requirements management tool that lets team's author and share their requirements using familiar document-based methods while leveraging database-enabled capabilities such as requirements traceability and impact analysis. The result is better communication and management of requirements with the increased likelihood of completing projects on time, within budget and above expectations. This session will provide an overview of RequisitePro including integrations with other tools like IBM Rational Software Architect, IBM WebSphere Business Modeler and IBM WebSphere Integration Developer.

Data Modeling with Rational Data Architect

Design your database in the context of the IBM Software Development Platform. Understand how to establish the bridge between software design and information design. Deploy the database and map how your service interface relates to it. The presentation and demonstration will contain:

- RSM/RSA and RDA transformation and working together.
- Working with logical and physical data models
- Deploying the database
- Synchronization between models and the database
- Understanding XML interfaces
- Mapping between database structures and XML schemas

You will learn how to integrate data modeling in your software development process.

Demystifying RFID: Websphere's Role in an IBM RFID Implementation

What is radio frequency identification (RFID)? How can it be used to solve business problems? Whether you are in a technical or nontechnical role, discover the benefits of driving business processes using RFID events and learn about the architecture of an RFID solution and IBM products that form the base platform for an integrated RFID-enabled solution. Highlights include: Introduction to RFID technology and standards, Overview of IBM WebSphere Premises Server.

Entry skills

- Interest in RFID

Exit skills

- Knowledge of hardware and software in an RFID implementation
- Awareness of RFID technology and RFID standards
- Understanding of IBM's RFID implementation

Composing Business Solutions using Service Component Architecture

Service-Oriented Architecture (SOA) is the latest model for building business solutions. This session will discuss how Service Component Architecture (SCA) is used to create service-oriented solutions, composing together existing and new services built from a variety of technologies such as Java, C++, and BPEL. SCA's declarative approach to infrastructure services such as security and transactions will be covered, along with its late-binding capabilities for selecting protocols and access methods. SCA's part in current and future IBM products will also be covered.

Entry skills

- Basic understanding of service-oriented architecture,

Exit skills

- Knowledge of Service Component Architecture and its use in building business solutions based on the use of a service-oriented architecture
- Understand which current and future products will provide SCA and how these relate to building business solutions for customers

SOA Roadmap for System i

System i is an important part of the IBM SOA strategy, and this session will focus specifically on the SOA Roadmap for System i. We'll talk about the technology many clients are entitled to that can help launch SOA projects in their organizations. The various SOA Entry points will also be discussed and how System i and i5/OS fits. Throughout the session we will integrate customer stories where applicable.

Entry skills

- A basic knowledge of Web Services
- Basic knowledge of the IBM SOA Foundation

Exit skills

- Relate the SOA Entry Points back to System i capabilities
- A basic understanding of how you can start simple with SOA on System i leveraging tools you may already have and grow fast with the IBM SOA Foundation portfolio

Why Good Architecture Matters for SOA

Current software development patterns and practices must evolve to help create the flexible architectures required to achieve the goals of SOA. This presentation will introduce some of the key architectural concerns for SOA, and discuss the methods, tools, and best practices at the heart of successful service-oriented solutions.

Nine Steps to SOA Enablement on System z

Many businesses today rely on mainframes for their mission critical data and applications. These CICS, IMS, and Batch workloads run the majority of business transactions executed worldwide. In today's business climate it is simply not practical to reimplement all of these transactions in order to add business functionality. To move these applications forward in a SOA enabled enterprise, customers need a plan. This session will introduce a strategy for business transformation on System z via SOA application technologies.

Introduction to IBM's Approach to SOA Governance

Recently, there has been a great deal of hype around SOA governance. Whenever a conversation comes up around service oriented architecture, the term governance is soon to follow. Find out why. This session will show you what SOA governance is, the role it plays in SOA, why it is important, and IBM's approach to delivering SOA governance. This presentation will feature IBM's SOA governance methodology, which lays out a multi-phase framework to implement an SOA governance model. The session will cover the technical, and more importantly, the organizational aspects of SOA governance. The audience will walk away understanding why SOA governance is not just a technical problem, and what can be done to implement an SOA governance model.

IBM SOA Strategy and Roadmap

TBD

Architecture Simplification

Simplification means the elimination of “Unnecessary Detail”. This session will address numerous aspects of architecture simplification that lead to an agile environment. Addressed will be the reasons to simplify and value of doing simplification. The major part of the presentation will discuss an approach to architecture simplification that covers 17 topics. Topics range from business influencers to technical aspects all of which are supported by process components. We will also discussed will be what can be measured to validate the value of the simplification. Finally steps will be identified on how to obtain support to initiate a simplification program.

Entry skills

- Project lifecycle understanding and experience in all phases of lifecycle
- Understanding of enterprise architecture
- Intermediate to advanced skill level

Exit skills

- Reasons to simplify and understanding of areas of simplification
- Simplification as an approach
- When and where simplification should be recommended simplification measurement

The Realization of the SOA Foundation through IBM Products and Services

TBD

The SOA Foundation Architecture and Scenarios

TBD

Non functional requirements in a Service Oriented Architecture

IBM software can be used to implement a Service Oriented Architecture. Irrespective of which particular technology or product is chosen, any SOA implementation must be able to fulfill non functional requirements: availability, reliability, usability, maintainability, portability, scalability and performance. If these concepts are designed into the SOA infrastructure architecture at the beginning, they can then be implemented irrespective of technology choice. For enterprise class customers, non functional requirements should be seen as just as important as

functional ones. However, they are rarely given the same status; they are usually left as an afterthought. This presentation discusses the importance of implementing them as an integral part of your Service Oriented Architecture; common traits, recurring designs, identified patterns which must be applied irrespective of technology or product, to provide an SOA implementation that can exist and thrive in the real world.

SOA Best Practices

TBD

Using J2EE patterns to foster reusable, cross-brand application components

This session will take a look at some of the core J2EE patterns that are used in application development such as business delegates, session facades, transfer objects, etc, and examine their roles in creating reusable application building blocks and setting up the framework for a cross-brand IBM solution. Best practices and real-life solutions will be discussed.

Entry skills

- Knowledge of J2EE application development/design (intermediate)
- Familiar with IBM SW products and brands (intermediate)

Exit skills

- Ability to build reusable application component
- Understanding in leveraging the cross-brand capability of IBM SW
- Ability to select and apply specific J2EE patterns in developing solutions on top of IBM SW

SOA Platform and Scenarios

TBD

RUP / SOMA

TBD

Designing Multi Channel SOA solutions using IBM's User Interface Strategy

This presentation will explain all the IBM recommend user interface technologies that can be used to build modern computer systems that allow humans interaction. It will explain how organisations can architect, design and develop these user interfaces that directly connect into your SOA. It will cover the technology choices for Internet Self Service, Extranet, Call Center, Branch, Teller, Kiosk, ATM, PDA, Voice and how you would develop highly reusable components ontop of the SOA that would enable a high degree of reuse of the Model View Controller framework. This presentation will position the technologies against the IBM products that delivery them to market. This will include overviews of the Lotus Expeditor, Lotus Sametime, Lotus Hanover, WebSphere Portal, WebSphere Application Server and JavaZero platforms. Finally the presentation will close with a competitive view against Microsoft, Adobe and Sun.

WebSphere Voice Server - Technical Overview

WebSphere Voice Server (WVS) product brings new capabilities to WebSphere Application Server (WAS). With WVS, you can authenticate with WAS using your voice, hear text as voice output from WAS, and speak to WAS using voice recognition. WVS also contains a SIP enabler component called the Voice Enabler (VE) which exploits the new SIP feature added to WAS 6.1. WVS also adds 2 new protocols to WAS. One provides a real-time media capability (RTP) and the other a new protocol which is standard for speech servers (MRCP). WAS adds reliability, scalability and availability to WVS. Come to this session to learn how WVS adds voice to WAS. This session will present the fundamentals of the WVS, explain how it exploits WAS as a foundation architecture, and discuss the advantages that the WAS platform brings to WVS.

Entry skills

- General knowledge of WAS and architecture skills

Exit skills

- General knowledge of the WVS and understanding of its value add to WAS

Everything You Wanted to Know About WAS, but Were (NOT) Afraid to Ask

This session will cover a number of common questions and the underlying architectural issues that need to be considered when deploying applications to WebSphere Application Server. The questions often arise because there are the issues that can make or break an application deployment and it turn its success or failure. In cases where a definitive answer isn't possible this session will summarize the items required for a well thought out and successful deployment.

WebSphere Business Services Fabric — Product Overview

This session is an introductory product overview of the WebSphere Business Services Fabric (WBSF), formerly Webify. WebSphere Business Services Fabric is an end-to-end SOA platform to model, assemble, deploy, manage and govern composite business services. It provides the design-time tooling, run-time environment, industry reference models, and pre-built SOA assets to enable rapid development of loosely coupled composite business services.

WebSphere Business Services Fabric hands on workshop

We will introduce the various components of the WebSphere Business Services Fabric (formerly known as Webify) and how these components fit in a SOBA lifecycle methodology. We will create a reference solution that will tie up several existing services for the 'ABC Insurance Company' into a Business process to get the true business value.

Advanced Web Services Interoperability

This session will cover advanced Web services interoperability topics in various scenarios:

- Service Creation: We will discuss new interoperability topics such as cross-platform attachments using MTOM (with demo), reliable messaging, SOAP 1.2, WebSphere interoperating with new platforms such as .NET 3.0 (WCF) and Axis2
- Service Connectivity: What does it mean in real life when connecting heterogeneous platforms together with WESB?
- User Interaction: The ubiquitous nature of Web services opens up many new usage scenarios (e.g. Accessing legacy assets from end user applications like MS Office or Web 2.0. We will examine the interoperability aspect of this and demonstrate how to leverage WebSphere Web Services from an Excel worksheet.
- Business Process Management: Technically, BPEL flows can invoke any Web services offered by any platforms. We will share some real life hints-and-tips in bringing heterogeneous Web services together in a Process Flow.

WebSphere Web Services Strategy

TBD

Web Services Best Practices

TBD

Introduction to WebSphere Early Programs

Did you know that you can participate in pre-release alpha and beta programs to get early access to WebSphere software? WebSphere Early Programs can help you get the information you need to start planning for and developing your next environment or application. Many WebSphere products are available through these programs, including WebSphere Application Server, WebSphere Commerce, and the WebSphere Product Integration portfolio. In this session you will learn how participating in WebSphere Early Programs can give you a competitive edge, by giving you early access to upcoming products, providing you with detailed product education, a personal relationship with WebSphere product experts, and the ability to give feedback on defects and product features.

TurboCharging WPS Development using Second Generation Patterns

First generation Patterns captured expertise in text form, allowing it to be passed on at human learning speeds and accuracy.,Second generation "Pattern Implementations" exploit new Pattern Technologies to shrink-wrap expertise in custom tooling, enabling it to be applied to development tasks at compute speeds and accuracy.,Business Process Development is particularly well placed to gain from this area—much process design can be built very naturally in pattern form. Early experience shows large productivity gains, and significant quality improvements are easily achievable.,In this session we will examine the new Patterns Technology opportunity and its potential, and give practical examples of its application using WPS.

Understanding the WebSphere Remote Server

Customer Experience

During this session we will describe the WebSphere Remote Server product and how it can be part of an SOA solution. WRS is focused on the retail space as a key part of the Store Integration Framework, but it can be used as an integral part of other solutions. Topics covered will be an overview of WRS, a definition of the customer scenarios where it is beneficial, a summary of the overall value proposition, a description of our competitive advantages, and an overview of the implementation process.

Entry skills

- General knowledge of IBM middleware products

Exit skills

- WRS product content
- Characteristics of retail environment
- How to extend WRS in a retail SOA environment

WSRR: Whats new in V6.0.2 and roadmap for 2007

TBD

Enabling SOA Governance Using WSRR

This session will provide a logical linkage between IBM's SOA Governance approach (as outlined by the SOA Governance and Management Method) and the functionality provided in WSRR. The session will go into using WSRR's classification functionality to model various business domains and establish and enforce decision rights. We will look at service lifecycle management using WSRR's state model functionality. The participant will understand how to associate policies with services using WSRR. Finally, we will cover how WSRR facilitates communication across all interested parties to keep service providers and consumers on the same page.

Basic Usage of WSRR

This lab will provide the attendee with practical experience using WSRR as a meta-data registry/repository. The attendee will publish, retrieve, decorate and create relationships among registry entities. They will gain experience using the WSRR Web Console and the eclipse 3.x plugin for WSRR. Other topics covered include: Concepts, Versioning and Governance Life-cycles.

Highly Available Reference Architectures for Linux on IBM System z

When deploying a key Linux application on System z, how do you ensure that it will remain up and running through planned and unplanned outages? This show shows a series of High Availability reference architectures for Linux on System z, including HTTP, WebSphere Application Server, DB2 UDB, Oracle, and DB2 on z/OS.

Content Information Management—Vital Services for Managing Enterprise Content

Enterprise Content Management (ECM) applies SOA to manage the explosive growth of unstructured business content. Content Information Management is the core set of ECM services for enabling content-centric business process solutions. This session shows how IBM FileNet P8 Content Information Management's core services—content federation, metadata and business rules management, taxonomy and classification—speed time to value for vital line of business applications, ensure compliance, and reduce IT costs.

Master Data Management in a SOA Environment (product focus: WebSphere Customer Center, WebSphere Product Center, and IBM Entity Analytics)

According to a recent AMR study, Master Data Management ranked as the second most important element to the successful deployment and management of SOA. This session details the importance of master data management within a SOA environment. It describes how master data services can be created and master data managed through WebSphere Customer Center, WebSphere Product Center, and IBM Entity Analytics. Customer case studies of master data management in a SOA environment will be explored in detail.

This sub-track focuses on deploying innovative business models quickly with reusable and optimized processes. Through a lifecycle approach we can help your business model underperforming processes, remove bottlenecks, then simulate and deploy the optimized process. Next, we can help you create flexible linkages between multiple processes across the enterprise and outside the firewall to suppliers and partners. Then, monitor the process to measure and track performance. The process entry point encompasses a range of software and solutions to enable people to interact with SOA.

Approaches for WebSphere and SAP Integration

There is an increased demand to extract data or content from packaged applications such as SAP to create new functionality as part of an integration solution. WebSphere is the premier middleware platform of choice for composite applications. This session presents a high-level overview of the different approaches to access SAP from WebSphere. The approaches can be broadly classified into data layer and presentation layer integration. In data layer integration, WebSphere products such as Process Server, Message Broker or ESB can be used in conjunction with WebSphere Adapters. In presentation layer, WebSphere Portal and associated tools may be used for integration. This session describes the various options that are available and the products mappings. This session will serve as a starting point for a more in-depth investigation of the chosen option for the integration, and it will also point the audience to resources and assets that are available for a given approach.

Business Process Development with BPEL

As Service-Oriented Architectures become more prevalent, the crucial question is how to tie those services together to do real work. In this session, we'll look at the Business Process Execution Language (BPEL), an open standard from OASIS that describes process definitions and workflows. We'll illustrate how to go from a trio of documents (the BPEL definition, the XML Schemas for the data structures and the WSDL description of how to invoke the process) to a variety of useful documents, including PDF and SVG files to document the process and XForms models to structure the user interface and the data flows. You'll see the power of a model-driven development model in which all of the models are XML-based and built on open standards. We'll build the model, then we'll generate the XForms and other components of the application. We'll also change the models and regenerate the other components of the system, ensuring that they stay synchronized.

Entry skills

- Basic knowledge of an SOA architecture
- Basic knowledge of workflow/BPEL

Exit skills

- Knowledge of how to use BPEL to create composite applications
- Understand the importance of building applications around a data model
- Understand the importance of open standards

Business Process Choreographing Enterprise Transactions

Come witness the power of choreographing enterprise IMS and CICS transactions. This session will help you understand the business value and advantage offered by WebSphere Integration Developer to orchestrate IMS/CICS SOA applications. See a demo of streamlining business process to solve real world challenges.

Common Event Infrastructure (CEI) - A technical study

The Common Event Infrastructure (CEI) is the framework for routing and persisting business events within the WebSphere Business Integration environment. This session will present the technical implementation details of how the Common Event Infrastructure functions as well as its fundamental usage in a WebSphere Business Integration environment. Come to this session to understand the pieces of the Common Event Infrastructure and how to apply them to meet the needs of your customer's applications.

Entry skills

- General knowledge about WebSphere Application Server, WebSphere Enterprise Service Bus, or WebSphere Process Server
- General knowledge of the Java Naming and Directory Interface (JNDI)
- A basic understanding of business events

Exit skills

- Technical knowledge how the Common Event Infrastructure functions in a WebSphere Business Integration environment

A Fresh Look at Human-centric Workflows: New Human Tasks Features in WPS

Human-centric workflows represent a very important scenario in business process automation. The Human Task Manager (HTM) component of WebSphere Process Server (WPS) can be used to implement virtually every business process where human intervention is required to make decisions or to handle situations that cannot be automatically resolved by a computational algorithm. Version 6.0.2 of WPS introduces some new and powerful features to the HTM, aimed at expanding even further its range of applicability. This session will provide a quick review of the base functionality of the HTM and will then discuss in

more detail the functions added by the latest release. In particular, we will focus on group workitems, follow up tasks, and on the new tooling functions that make it easier to create client applications for interacting with the HTM.

Entry skills

- High-level understanding of the human interaction features of WPS 6.0

Exit skills

- Understanding of the state-of-the-art of the human interaction support in WPS
- Understanding of the newest options for creating client applications for managing human tasks

Whirlwind Tour of the WebSphere Process Server's Human Task Manager

The session gives attendees hand-on experience on using the main features of the WebSphere Human Task Manager (HTM). Participants will learn to: Create inline and standalone human tasks using WebSphere Integration Developer. Use HTM programming API to retrieve, claim human tasks to build custom user interface for viewing and completing the assigned human task, Use HTM JSF components for rapid development of task management user interface. Perform advanced configuration of HTM for dynamic staff assignment, runtime evaluation of human task variables such as, expiration. Create escalation to notify higher authorities of unclaimed tasks.

WebSphere InterChange Server to WebSphere Process Server Migration

Now that it's been a year and a half since IBM WebSphere Process Server V6.0 has been released, how can you protect your investment in WebSphere InterChange Server (ICS)? Is there a migration path or do we have to start over? What tooling is available in WPS 6.0.2? Should we migrate now or later? What are the best practices around migration? These and many more migration related questions will be answered in this session.

Migrating Business Process Applications to WebSphere Process Server

Business processes/staff integration is a major component of a successful SOA. IBM has released major revisions of their integration/workflow server. Customers with existing business process applications are eager to migrate these assets to run on the latest platform. This session will help you understand the steps required to migrate both your existing business process applications and process portlets from WBISF v5 to WebSphere Portal v6 and WebSphere Process Server. This presentation highlights: the intersection and divergence in product capability, the automated source code migration tools, and manual effort required to migrate your existing BPEL and process portal applications.

Entry skills

- General knowledge of WBISF, Portal, WebSphere Process Server and tooling,
- A basic understanding of Web services standards: XSD, WSDL, WS-BPEL, etc,

Exit skills

- An understanding of the steps required to migrate WBISF workflow and portal applications to WebSphere Process Server 6.0.x

Business Processes — Modeling methodologies and best practices

The session shows methodology methods that apply when using WebSphere Business Modeler v6.x for business process modeling. It explains how companies should start with business process modeling, in what order various process objects should be created and how they should be assigned to processes and activities in order to finally have a complete and rich process model for documentation as well as for analysis, this includes what skills are required, and what questions should be asked when optimizing existing business processes. In addition, the session shows features of WebSphere Business Modeler used to better communicate process model definitions between various parties involved in Business Process Management projects.

Introduction to Modeling and Analysis using WebSphere Business Modeler

IBM WebSphere Business Modeler supports process improvement by capturing a comprehensive view of the way companies do business. A clear understanding of how a process works is a prerequisite to meeting the demands of a constantly changing environment. This lab focuses on creating a business model, adding information and running simulation and conduct analysis. This is an ideal lab for participants to quickly become familiar with the Modeler's features and its simulation power.

WebSphere Modeler and Monitor 6.02 updates

TBD

Developing BPM/BAM Applications

Explore the new WebSphere Business Monitor Programming Model. This session will discuss how you can enable your BPEL processes, SCA components, ESB, or any of your own services to emit CBE events, and then extract relevant information from these events in real time to update metrics and Key Performance Indicators for WebSphere Business Monitor Dashboards. A number of scenarios will be used - e.g. starting from Modeler or starting directly from WID, pros and cons and best practices with the different scenarios will be given. We will also discuss the direction of the future releases and some of the new work that is already on going to integrate Web2.0 technologies with the BPM stack.

Entry skills

- Know how to use WPS/WID to build a BPEL, ESB, SCA, SOA Application
- Some understanding of CEI and Common Base Events

Exit skills

- Enable your WID applications for BAM
- Create your own Monitor Models
- Demonstrate WebSphere Monitor, e.g. its Dashboards and explain BAM

WebSphere Business Monitor Overview and Roadmap

This session will give a technical overview of the capabilities of the latest release of the WebSphere Business Monitor product, and a roadmap for its future directions. It will cover the Monitor programming model, highlighting the concepts involved in defining monitor models and in enabling an application for emitting events to be monitored. It will also offer a brief demo of the product, including use of the Monitor Toolkit, the Monitor Server, and the Monitor Dashboards, and will offer a question and answer session at the end.

MQWF to WPS migration—tools and real life experiences

This session will first of all give you insights into the tools that will help you with a migration from MQ Workflow to WebSphere Process Server and will also explain how the FDL constructs will map to the brave new BPEL world. It will also cover the latest enhancements of version 6.0.2 in this area. In the second part of the presentation, we will go through a current real-life project of a Swiss bank that works on such a migration from MQ Workflow to WebSphere Process Server. This part will cover the architecture of the solution, as well as the lessons that we learned.

WebSphere Business Integration 6.02 Update

Business Process Management and Connectivity are key on-ramps to SOA. The recent update of key WebSphere Business Integration products via the 6.02 delivery has strengthened and enriched the overall integration capability in WebSphere. The new 6.02 features of WebSphere Business Modeler, WebSphere Business Monitor, WebSphere Process Server, WebSphere Enterprise Service Bus, WebSphere Integration Developer and WebSphere Adapters will be highlighted in this multi-product presentation. Emphasis will be on scenarios where multiple products are used together. The integration points between the 6.02 products and WebSphere Service Registry and Repository will also be outlined.

Entry skills

- Basic WBI concepts from past releases

Exit skills

- Basic awareness of WBI V6 products such as WebSphere Business Modeler, WebSphere Business Monitor, WebSphere Integration Development and WebSphere Process Server

WebSphere Process Server and WebSphere ESB 6.02 Update

WebSphere Process Server and WebSphere ESB comprise key components of the overall Business Integration capability within WebSphere. This session will briefly review the features and functions of WPS and WESB 6.01 and will then focus on new features delivered in the 6.02 release. Attendees are assumed to have a basic working knowledge of WebSphere Process Server. Features and functions in 6.02 will be described in terms of scenarios and in terms of the various roles which are performed while using WebSphere Integration Developer, WebSphere Process Server and WebSphere ESB to build integration solutions.

Entry skills

- Basic awareness of WebSphere Enterprise Service Bus and WebSphere Process Server and the capabilities that they have in V6.0/6.01.

Exit skills

- An upgrade of that prerequisite knowledge to the current 6.02 version of these products.

WebSphere Business Process Management— Technical Overview

After attending this presentation you will have a good understanding of the IBM WebSphere Business Process Management products and how they relate. You will be well prepared to attend deep dive sessions on various topics and be able to relate the details to the bigger picture. This presentation will introduce the SOA Lifecycle of Model, Assemble, Deploy and Manage as well as Governance from a Business Process Management point of view. You will understand the basics about WebSphere Business Modeler, WebSphere Integration Developer, WebSphere Process Server and WebSphere Business Monitor as well as WebSphere Service Registry and Repository.

Entry skills

- None

Exit skills

- Understand the basics about WebSphere Business Modeler, WebSphere Integration Developer, WebSphere Process Server and WebSphere Business Monitor and WebSphere Service Registry and Repository

Process Server programming model Best practices — experience based approach

Imagine you are called in as a consultant to a major insurance company wanting to transform their legacy CRM, policy and claims applications to exploit state of the art programming models and platforms. Naturally today you would turn their attention towards Service Oriented Architecture (SOA). This session examines the best practices for developing SOA applications targeting IBM WebSphere Process Server (WPS) and the Service Component Architecture (SCA) programming models upon which it is based. The session first focuses on how to decompose a complex enterprise system into various subsystem or functional components, then how to choose an appropriate SCA programming model implementation type for each, and finally how to compose these components in an end-to-end solution within WPS. A real-world case study from the insurance industry is used to provide a concrete reference example throughout the presentation.

Entry skills

- Fundamental SOA (Service Oriented Architecture) concept
- Basic WebSphere Process Server knowledge
- Basic J2EE programming model knowledge basic OO Analysis and Design skill

Exit skills

- An understanding of the Best Practices in using WPS and SCA
- When to use macroflows, microflows, BPEL, adaptors, mediators, and EJBs in a WPS application.

WPS Integration with legacy java and J2EE

Most enterprises have Java and J2EE applications that expect data as java objects. WebSphere Process Server (WPS) models data as XML schemas and processes data as Service Data Objects (SDO) or Business Objects. Existing applications that expect data as java objects cannot consume SDOs directly. Customers face difficulties in integrating the two environments which must co-exist. Developers have to write complex custom code to integrate Process server with existing applications. WebSphere Process Server 6.02 simplifies this integration by providing tools to generate mappers that handle conversion between data objects and java objects. The goal of this deep dive lecture is the following: explain key concepts in the conversion between SDO and Java, explain Java to WSDL mapping, discuss problems with duplicate namespaces and types and how refactoring can solve this issues, and list best practices. The lecture will be applicable to an intermediate level WPS user/developer.

Introduction to WebSphere Integration Developer (WID)

This session will gently introduce WebSphere Integration Toolkit. If you are new to WebSphere Enterprise Service Bus or WebSphere Process Server, or they are in your future, this talk is your Hello World introduction to the tools for them.

Entry skills

- None

Exit skills

- A basic understanding of the pieces that make up a simple mediation flow or business process, and how to author them.

Testing and Debugging SOA Applications with WebSphere Integration Developer

WebSphere Integration Developer (WID) offers a comprehensive set of capabilities not only for developing but also for testing your WebSphere Process Server (WPS) and WebSphere Enterprise Service Bus (WESB) integration logic. This session will focus on how to effectively use these WID test and debug tools. If you use WID or plan to use WID, you should attend this session. It will also touch on potential future enhancements in the WID test and debug tools.

Entry skills

- A basic understanding of WebSphere Integration Developer

Exit skills

- How to test components in isolation
- How to test and debug complete and incomplete modules
- How to test and debug multi-module applications

Mapping options in WebSphere Integration Developer

WebSphere Integration Developer is used by developers to write integration logic aimed at WebSphere Process Server and WebSphere Enterprise Service Bus. Mapping is a key requirement of integration logic, and within WID, there are a number of options for mapping data and interfaces. This session will enumerate those options and briefly introduce you to their respective tools. We will also look ahead at possible changes in the mapping landscape going forward.

Entry skills

- Basic knowledge of WebSphere Integration Developer,

Exit skills

- Knowledge of the various options within WID for mapping data and interfaces
- Basic understanding of how to get started with the respective mapping tools

Lab: Build a Simple Business Process

This hands-on lab will cover the development and testing of WS-BPEL 2.0 business processes using IBM WebSphere Integration Developer V6. Begin by designing a workflow using the Process Editor. Package the business process with its corresponding interface into a business module. Finally, deploy and test the business module using the Business Process Choreographer (BPC) Client and the Integrated Test Client.

Entry skills

- Experience with Eclipse-based development tools, such as IBM Rational Application Developer, Develop Enterprise Java (J2EE) applications for IBM WebSphere Application Server
- Develop Web services for IBM WebSphere Application Server

Exit skills

- Create a business module in IBM WebSphere Integration Developer
- Design a business process using the Process Editor
- Test a business process using the BPC Client and the Integrated Test Client

WebSphere B2B Integration: WPG and Strategy/Roadmap

The session will describe IBM's view of B2B integration, B2B evolution and market trends and industry standards evolution. It will explain how B2B technologies and standards may be leveraged to extend SOA-based intra-enterprise integration to inter-enterprise integration in a seamless, reliable and secure manner using infrastructure and industry standards. The presentation will also include a summary of WebSphere Partner Gateway (WPG) functions and include a product roadmap covering future releases and expected content.

Entry skills

- Understanding of business integration

Exit skills

- Understanding of B2B technologies and standards
- Understanding of the evolution of market and industry trends
- Understanding of how B2B fits with SOA and BPM
- Understanding of the function of B2B gateways

Clustering WPS

Clusters enable you to satisfy many nonfunctional requirements for your WESB and WPS modules. In this session we will discuss how to set up your clusters to solve some of the more advanced nonfunctional requirements. The examples in this session will address disaster recovery involving multiple sites, singletons, hardware replacement and continuous availability. Come to this session to understand how clusters are more than just simple scalability when used to solve your customer's specific needs.

Entry skills

- General knowledge of WPS deployment environments
- General knowledge of WAS clusters

Exit skills

- Understand options available for setting up a cluster to expand their utility

Validating and Troubleshooting you WPS ND Topology

Network Deployment environments enable you to satisfy many of the nonfunctional requirements for WESB and WPS modules. Sometimes isolating problems in these environments can cause you to become overwhelmed with all of the data. There are logs associated with each server in the environment and it is not always obvious which logs contain the valuable pieces of data. In addition the logs do not always contain all of the necessary data. Come to this session to understand how to obtain, sort and analyze the available data to determine that your environment is working or what is wrong when there is a problem.

Entry skills

- General knowledge of WAS ND environment
- General knowledge of WPS

Exit skills

- Understand the role of an IVT in your analysis
- Understand how to select the most fruitful data to analyze
- Understand a best practice approach to trouble shooting WPS and WESB deployment environments.
- Understand a best practice approach for building your deployment environments

Template Driven Configuration of WPS ND Topologies

TBD

Design your WebSphere Process Server infrastructure successfully

TBD

WebSphere Process Server 6.0.2 Technical Overview

WebSphere Process Server V6.x is IBM's Business Integration platform built on SOA core technologies. It combines a comprehensive set of integration and workflow capabilities in a single, standards-based integration server. A BPEL based workflow engine, powerful human task support, business rules engine and simplified integration model are just few of the benefits which allow you to build powerful service-based integration scenarios. In this session, you will learn about product features and capabilities and what value they might provide to your organization. This session is targeted on all customers NEW to that area wishing to learn something about the product before they attend any deep dive sessions.

Entry skills

- General or no knowledge of WebSphere Process Server.
- Understanding of basic workflow and integration concepts.

Exit skills

- Good understanding of WebSphere Process Server
- Good understanding of the value the product provides for any SOA.

Business Admin Console: A Web-2.0 Approach to Integration Solution Admin

TBD

Using WID to Develop and Test WPS/WebSphere Business Monitor Applications

TBD

Best Practice on Error Handling in Business Processes and Human Tasks

TBD

Rich Clients for WebSphere Process Server

How can non-Web-based clients be integrated with WebSphere Process Server? How can the WebSphere Process Server APIs be utilized there and how can you design a easy-to-maintain client application? This session shows several different approaches in WebSphere Process Server 6.0.1 and 6.0.2.

Entry skills

- WebSphere Integration Developer basics
- WebSphere Process Server basics
- Java basics

Exit skills

- WebSphere Process Server API skills
- Integrating non Web-based clients with WebSphere Process Server applications

Top Best Practices for Implementing WPS Solutions

This double session is a survey of the best practices for developing on WebSphere Process Server (WPS) using WebSphere Integration Developer (WID) V 6.0.2. The session focuses both on using WPS for process management and on using it as an integration broker. The first perspective includes best practices for Process Choreography (BPEL), Business State Machines, Human Tasks (HT), the creation of UI for processes, and integration with Portal. The Integration Broker usage discusses Mediation Modules from WebSphere ESB versus WPS modules, how to use Adapters and native bindings, Business Objects (BO) transformation, possibly through WebSphere Transformation Extender, and how to isolate the back end (EIS) data and logic from those of the process.

Entry skills

- Familiarity with WebSphere Process Server and WebSphere Integration Developer
- Understanding of the most common use cases of the WPS product (integration broker and process automation)
- Familiarity with the SCA programming model and the SDO framework
- Experience with BPEL processes

Exit skills

- Understanding of the key best practices for using WPS as an integration broker
- Understanding of the key best practices for Process Automation with WPS

Best Practices for using Business Rules in WebSphere Process Server

Business rules can be a critical piece of integration applications. With business rules, logic can be easily specified and then easily changed as the needs of the business change. This session will discuss the features of Business Rules in WebSphere Process Server, including the new 6.0.2 features. The session will also look at proper usage patterns for WebSphere Process Server Business Rules and best practices. Finally, it will discuss a decision guide on choosing when to use WebSphere Process Server Business Rules and other vendor's business rules.

Entry skills

- General knowledge of WebSphere Process Server,
- General knowledge of business rules

Exit skills

- Understand the usage patterns for business rules in WebSphere Process Server
- Understand the best practices for using business rules in WebSphere Process Server

Performance Best Practices for WebSphere Process Server

TBD

SCA Problem Determination

TBD

WPS /WESB 6.0.2 for z/OS Update

This session will provide a technical update for WPS and WESB 6.0.2 for z/OS mapped over the current functionality available in WPS / WESB 6.0.1.x for z/OS today. Focus will be on features and functions added to WPS / WESB 6.0.2, as implemented on WAS 6.02.17 for z/OS. Any WAS z/OS QOS features utilized for WPS / WESB will be discussed. This session will also provide a discussion of WPS /WESB 6.0.2 deployment patterns implemented during system testing including; best practices, where appropriate. a brief overview of performance measurement findings /outlook for WPS/WESB 6.0.1.2 /6.0.2 z/OS, and a preview of WPS/ WESB 6.1 z/OS future functionality.

Entry skills

- Familiarity with general concepts of WebSphere Application Server for z/OS, structure QOS and usage.
- Some familiarity with WPS / WESB 6.0.1.4 and WBI predecessor products.
- Familiarity with WPS /WESB (WBI) deployment patterns is helpful.

Exit skills

- Ability to understand how WPS and WESB 6.0.2.x is installed and used for SOA based WBI solution on WAS 6.02.xx on z/OS
- Understand usage patterns, some best practices, that have been observed during delivery for Systems and performance benchmarks for WPS z/OS.
- Get a brief understanding of the future direction of WPS/ WESB 6.1 for z/OS.

Process Applications across Multiple Process Engines

TBD

This sub-track provides the technical knowledge that you need to make the most out of major product enhancements in the CICS Transaction Server allowing you to increase the ease of application integration, enhance application transformation and improve enterprise management.

Application Development Considerations for Security and State Management of Composite CICS and WAS Applications

TBD

CICS Transaction Gateway and CICS Universal Clients: Introduction, Overview and APIs

TBD

SOA-Enabling Your Mainframe Data (product focus: DB2, IMS, and Information Server — Classic Federation

TBD

CICS Transaction Gateway: Product Update and Strategy

The CICS Transaction Gateway (CICS TG) is a market leading connector proven to be a high performing, secure, scalable and tightly integrated method of e-business access to CICS. It benefits from ease of installation and flexible configuration options, that requires minimal or no changes in CICS. It provides a range of networking options and provides a choice of Java and non-Java client APIs. This session will provide information on the usability, systems management and performance enhancements in the latest version of the product as well as providing an insight into future strategic directions.

Implementing the CICS Transaction Gateway on z/OS

TBD

Implications of Threadsafe in CICS Transaction Server

TBD

Beyond the 32k Commarea Limit

TBD

What Does It Mean to be Threadsafe in CICS Transaction Server?

TBD

Integrating CICS into Composite SOA Applications

TBD

Modern Application Architectures for Mainframe COBOL Hands on Workshop

TBD

Enterprise Batch Modernization

This presentation will discuss some recent findings on a study on Enterprise batch modernization in IBM. Bulk processing is important in every industry; and this presentation will discuss some best practices that we have built over several engagements, modernizing their batch computing. We will also talk about the various offerings from IBM on different platforms for batch computing. Batch Computing is part of almost every legacy transformation to SOA, and needs to be addressed at an early stage to get maximum efficiency for a 24x7 processing and utilization of resources.

Host Access Transformation v7 Update

This session the highlights of the new release of HATS, HATS v7, being released in March, provides additional options for your customers in the area of Enterprise Transformation and SOA. It will include discussion of improvements for the iSeries customer, the new screen combination wizard, options for providing tabular data in spreadsheet format and more. It will also discuss a new rich client option that allows you to deploy to an Eclipse 3.2 Rich Client Platform or the new Lotus Expeditor 6.1 platform.

Entry skills

- General knowledge of Host Access Transformation Services (HATS) and Rich Client platform or Lotus Expeditor.

Exit skills

- Knowledge of new features in HATS V7

CICS and TCP/IP High Availability

TBD

CICS Interdependency Analyzer: A Technical Introduction

TBD

Exploiting the IBM JVM in CICS

TBD

Avoiding Problems Through Proper Setup of Java and CICS

TBD

Writing Java Applications for CICS

Java applications are running under CICS? Of course! But you will need to have an understanding of the JCICS API to interact with CICS from your Java program. This session provides an understanding of JCICS terminology and the capabilities of the JCICS API. This session also relates familiar procedural concepts to the equivalent concepts in Java.

Entry skills

- Familiarity with CICS procedural application coding.

Exit skills

- Basic understanding of how to write CICS Java applications (and how to learn more).
- As an operations/systems person, the ability to communicate with developers who do write such applications.

CICS TS V3 Migration Planning

TBD

Rapid Migrations to Latest CICS TS

TBD

CICS Performance Analyzer for z/OS: A Technical Introduction

TBD

CICS and VSAM Performance Considerations

TBD

CICS Trace Table — The Basics

TBD

CICS Transaction Debugging Using Dumps

TBD

CICS Transaction Problem Investigation — A Case Study

TBD

Debugging Java Problems in CICS

TBD

Debugging Storage Violations in CICS

TBD

Mining Performance Gold from CICS Statistics

TBD

Solving Problems Using the CICS Trace Table

TBD

Hands-on Workshop: CICS Interdependency Analyser for z/OS

TBD

CICS Health Check

TBD

Taking CICS Web Security to the Next Level

TBD

Integrating CICS Services with Service Flow Feature and WDz

TBD

Implementing Web Services for SOA in CICS TS V3.1

TBD

How IBM can transform your z/OS environment to SOA

TBD

CICS System Management

TBD

CICSplex Systems Manager (CPSM) Overview

TBD

What the CICS Systems Programmer Needs to Know About CICS' Use of TCP/IP

TBD

Support for ECI over TCP/IP in CICS TS V2.2 or later

TBD

Using CICS as a Webserver to Deploy Microsoft .Net Winforms

TBD

What's New in IBM Tivoli OMEGAMON XE for CICS on z/OS V310

TBD

IBM Announces V7 of the z/OS Applications Development Tools.

TBD

CICS and VSAM Performance Considerations

TBD

CICS VSAM Transparency

TBD

CICS and WebSphere Interoperability: An Overview

TBD

Introduction to WebSphere Developer for System z

TBD

Developing CICS COBOL and PL/I Applications with WDz

TBD

Developing Web UI Based CICS Apps with WDz, Java Server Faces and EGL

TBD

Building and Deploying Web Services with CICS TS V3.1 and WD

TBD

CICS and WebSphere Application Server integration with the CICS TG JCA Resource Adapters

TBD

Enable CICS to Participate in Web Services/SOA - Process Manager for CICS

TBD

Web Services, Security and Transactions

TBD

CICS Web services atomic transactions

TBD

CICS Web services security scenarios

TBD

Implementing CICS Web services: a customer example

TBD

CICS, the z/OS Workload Manager and Performance

TBD

Dynamic Workload Management using CICSplex Systems Manager

TBD

This sub-track will focus on the tools that allow you to quickly and easily add new function and applications to your company's solutions portfolio. It will also provide the knowledge that's needed to create new applications and reuse existing ones to create a totally integrated solution throughout the enterprise.

Exploring the Eclipse Web Tools Platform—What's Up with WTP?

TBD

Developing Eclipse RCP-based Application for WebSphere Platform

WebSphere is dominant in the enterprise marketplace, a mature J2EE/SOA middleware product providing services for a wide variety of clients. At the same time, Eclipse RCP has grown in popularity as an alternative client side technology. Tie these two together and you have an attractive combination for certain end-to-end applications, as well as for Web-based clients. In this session, we will first briefly examine the RCP technology and its history. Secondly, we will present the WebSphere APIs which allow for external client connections. We will then outline the step-by-step process of developing RCP applications for WebSphere, including the development environment (tools, classpath, etc.), packaging and deployment. Code examples and demos will be given throughout the session.

Entry skills

- General knowledge of WebSphere Application Server
- A basic understanding of Eclipse

Exit skills

- Understanding the development and deployment process of WebSphere RCP applications

Introduction to Ajax

Ajax has revolutionized the way we look at applications on the Web. Ajax is a pattern that has enabled browsers to function more like a rich client. This session will discuss what Ajax is, including what are the technology attributes that make up Ajax, and how it serves as a foundation for Web 2.0.

Entry skills

- General Web Application experience

Exist skills

- Understand the basics of Ajax

Radically Simple Development of Rich Internet Application with WebSphere Zero

TBD

Enterprise Java Evolution

Enterprise requirements have continued to evolve, requiring a new look at Java EE and SOA programming models. Java EE 5 tackled ease of use, but still needs work to stay current while reducing complexity. SOA has been focused on addressing dynamicity in the enterprise, but is evolving to address industry trends in this space. This talk will highlight new capabilities being introduced into the WebSphere family covering EE5 and SOA as well as cover the latest news and directions in Java EE 6 and future SOA programming model trends.

Entry skills

- General knowledge of Java Enterprise Edition

Exit skills

- Understanding of how Java EE version 5 has simplified development, what factors are affecting the future direction of Java EE, and how the WebSphere Family is introducing these technologies into its platform.

Open JPA

TBD

EJB 3 Feature Pack

EJB 3 is a major upgrade to the EJB technology. EJB 3 makes it simple and easy to write Enterprise Applications using a simple POJO Architecture. In this talk you will learn how EJB 3 has changed. We will cover differences in Session Beans, Message Driven Beans, and discuss persistence with JPA (Java Persistence Architecture).

Entry skills

- General Knowledge Java Enterprise Edition.

Exit skills

- You will have an overall view of how EJB 3 has simplified development.

Building EJB 3 applications with the EJB 3 Feature Pack

TBD

Introduction to DojoToolkit and Ajax.Zero

Coding rich internet applications by hand using JavaScript is a very difficult task. Having to deal with cross browser dependencies, the dynamic nature of the language, DOM manipulation, and many other details make it a very tedious task. The Dojo Toolkit attempts to provide a rich set of browser libraries that provide a rich widget libraries, IO abstractions, browser differences, and a whole set of other functions meant to make it easier to build rich internet applications. This session will give an overall overview of the Dojo Toolkit. We will also look at some of the value add IBM's Web2.0 platform adds on top of Dojo.

Entry skills

- General knowledge of Web development and Ajax

Exit skills

- Understanding of how to use the Dojo Toolkit

Building Rich Internet Applications with WebSphere Zero

TBD

WebSphere Real-Time: Predictable Performance for Java applications

Java is maturing and it is no longer about just for applets and servlets. Java can now be used for running applications that require consistent, predictable, deterministic performance using WebSphere Real-Time. This will discuss the significant enhancements that have made to the J9 Java Virtual Machine (JVM) and TR Just-in-Time (JIT) Compiler. It will introduce our new Garbage Collector called Metronome and then discuss the class libraries were written to conform to the Real-Time Specification for Java, which is also referred to as JSR#1.

Rational Roadmap and Strategy

TBD

Introduction to IBM Rational Asset Manager

Come learn how IBM Rational Asset Manager can help you:

- Manage your SOA assets
- Prescribe and enforce enterprise architecture
- Govern production and consumption of any type of asset including open source components.

RAM is a new product from IBM that is a development time software asset management repository. In this session, the RAM product manager will be giving an overview and demonstration of the product.

Rapid Application Development with IBM Rational Application Developer

IBM Rational Application Developer is a rapid application development platform for designing, developing and deploying well-architected, n-tier J2EE applications — without having to deal with underlying platform complexities. In this hands-on workshop you'll take advantage of the RAD techniques and optimized code construction facilities to implement and deploy a complete executable application. Rational Application Developer automatically constructs all of the "plumbing" code that is required for your selected deployment technologies. No J2EE knowledge is required to produce this application because Rational Application Developer enables a broad range of developers to be highly effective members of teams building applications for today's sophisticated n-tier platforms. You will leverage the industry leading technologies like JavaServer Faces, Service Data Objects (SDO), AJAX, Web Services, EJBs and Portals to design, construct and test these applications.

Rational Application Developer version 7 and beyond

TBD

Introduction to IBM Rational Software Architect

Rational Software Architect (RSA) is IBM's premier offering for creating high-quality, well-architected, high-performing SOA-based software systems, and to do so in less time and at lower cost. This presentation will answer your questions with respect to how RSA helps your customers do these amazing things. Along the way, we will focus on RSA's integrations to WebSphere Business Modeler and Rational RequisitePro, RSA's advanced system modeling capabilities, and the newly-enhanced support for code review and patterns-based software development.

Building a composite service application using SCA and SDO

In this hands-on lab, the creation of a composite service application using Service Component Architecture (SCA) and Service Data Objects (SDO) will be shown. This will involve the creation of a set of Java service components and their assembly into a solution using an SCA Composite. Service components use SDOs to represent data structures in the service interfaces. Deployment of the elements of the solution is shown, followed by the execution of the services offered by the solution. This is done using Eclipse for the development tooling, followed by the use of WebSphere 6.1 and the SOA Feature Pack for the runtime.

Entry skills

- Java programming, understanding of SOA

Exit skills

- creating SCA service components
- understanding of composition of services using SCA
- use of WebSphere SOA Feature Pack as an SCA runtime

Service Component Architecture and Apache Tuscany

Service Component Architecture (SCA) is a flexible and extensible programming model and assembly framework for service-oriented applications with a variety of component types implemented using different languages and underlying technologies. SCA has been defined by the Open SOA collaboration (www.osoa.org). The Tuscany project in the Apache incubator provides a freely available implementation of SCA for components implemented in Java, C++, Ruby, Python,

JavaScript and PHP. Tuscany also includes Service Data Objects (SDO) and a Data Access Service (DAS). This session will describe the main features of SCA as implemented in Apache Tuscany, showing how SCA can be used together with SDO and DAS to provide a full-featured SOA programming model, with code examples and a demonstration.

Entry skills

- General understanding of Service-Oriented Architecture
- Basic familiarity with Java and XML

Exit skills

- Service assembly and composition
- Basic understanding of SCA, SDO, DAS, Apache Tuscany

Introduction to SOA Design

The keys to building successful service-oriented business systems include (1) ensuring the systems support the functional needs of the business and (2) architecting the systems so that they meet non-functional requirements, such as performance, scalability, security, and maintainability. SOA Design is the part of the SOA solutions process that addresses these activities. This session provides an overview of the key components of an SOA design; describes, compares, and contrasts the IBM methods (mainly CMB, SOMA, and RUP SOMA) that can be used to support SOA Design; describes what needs to be modeled during each phase of SOA Design; and sketches out one scheme by which IBM tools and methods can be used to realize SOA Design.

Composite Business Services for building adaptable reusable SOA solutions

SOA Composite Business Services (CBS) enable the shift from a labor intensive model to an asset model based on composition of loosely-coupled, distributed assets to deliver flexible reusable solutions. CBSs may include legacy applications, ISV packaged apps, and network delivered services. We must provide middleware accelerators to expedite the stitching together of CBSs that support multiple business intents (e.g. standards adherence, multi-tenancy, dynamicity, configurability, security, etc). We implemented banking scenarios to showcase modeling, assembling, deploying and managing of CBS. These use WebSphere Business Services Fabric (WBSF), WSRR, WBM, WID, WPS, WPF, Portal, DB2 v9, DataStage, Tivoli's TDS, TAM and TFIM. We present best practices, challenges and integration issues uncovered in partnership between SWG Strategy and China's CSDL. Attendees will be able to reuse our assets and understand the choices for delivering flexible SOA solutions.

Introduction to UML 2

Modeling has been an essential part of engineering, art and construction for centuries. Complex software designs that would be difficult for you to describe textually can readily be conveyed through design diagrams. Each diagram focuses on one aspect of your application. Modeling provides three key benefits: visualization, complexity management and clear communication. UML stands for Unified Modeling Language and is the standard language for visualizing, specifying, constructing, and documenting the artifacts of a software-intensive system. UML was approved by the OMG as a standard in 1997. Over the past few years there have been minor modifications made to the language. UML 2 is the first major revision to the language. You can use UML with all processes, throughout the development life cycle, and across different implementation technologies. In this session you will learn basic UML 2 notation and see how UML 2 diagrams can be used throughout the development lifecycle.

Entry skills

- Basic knowledge of software design

Exit skills

- Working knowledge of basic UML2 notation and how (and when) the various diagram types are used during development

Topic to be determined - may be on zero stuff

TBD

Rapidly build SOA-based dashboards with WebSphere Dashboard Framework

This session will introduce you to WebSphere Dashboard Framework, a powerful tool for building standards-based, active dashboards. First, we will demonstrate a live dashboard application. Next, we will build (from the ground up) one of the data-driven portlets within the dashboard, including creating the Web services that wrap the back end systems. Finally, we will show how to quickly customize the portlets for different roles or user characteristics.

Entry skills

- Understanding of WebSphere Portal and/or WebSphere Application Server

Exit skills

- Understanding of how to use WebSphere Dashboard Framework to create and customize dashboard portlets based upon a SOA

Web 2.0 and mashups—how to build SOA Web apps in 5 minutes

A mashup is a Website or application that combines content from more than one source into an integrated experience [Wikipedia]. This session will discuss the evolution of the Web application paradigm that is being fuelled by the extreme popularity of blogs and wikis, creating new ways of interacting and truly enabling the read/write Web. As most IT shops today experience an extreme shortage of resources, the continuous pressure to deliver new applications is welcoming a new paradigm – situational applications. Quickly developed and easily assembled from existing (SOA) middleware enablement, these applications take advantage of the simplicity of Web 2.0 technologies like blogs and wikis and services from the Internet (like ATOM and RSS). This session will cover how IBM leverages Web 2.0 technologies to provide a robust development environment for mashups (currently available from alphaWorks Services). It will then demonstrate the applicability of IBM's technology using a case study from the Media Industry where situational applications are business as usual for journalists and production editors/directors.

Entry Skills

- Basic knowledge of current Web application structure
- Basic understanding of the terms “blog”, “wiki”.

Exit Skills

- Basic understanding of the “situational application” paradigm and the technologies used to implement it.

What is Web 2.0?

There is a lot of buzz around Web 2.0. Web 2.0 is not a technology, but a culture. In this session, you will learn what Web 2.0 is, what technologies enable Web 2.0, and how it fits into your enterprise.

Entry skills

- General Web Applications Experience

Exit skills

- Understanding what Web 2.0 is about, what technologies enable Web 2.0, and how Web 2.0 can benefit your enterprise.

From Models to Forms: Building Applications Around XForms

Version 1.1 of the XForms standard was recently released by the W3C. Lost in the hype around Web 2.0 and Ajax is the fact that your visually-attractive Web 2.0 application actually needs to do something useful. In this session we'll illustrate an application based entirely on XML-based models: A BPEL process definition, an XML schema for data structures and a WSDL file that describes how to use the process. Given that standards-based starting point, we'll illustrate how to generate XForms applications that run in common browsers. Even more important, we'll change the business process definition and the data structures underlying the application, then use XSLT to regenerate the interface. This ensures that the beautiful Ajax interface stays synchronized with the model of the application itself.

Entry skills

- Basic understanding of current Web application technologies and structure

Exit skills

- A clear view of how Ajax, Web 2.0 and other open standards can be used together to build a robust and useful application.

Auditable SOA: Managing Your XML Messages in a SOA Environment (product focus: DB2 pureXMLtm)

SOA produces large volumes of XML data. Most companies do not have a comprehensive strategy for managing this critical data, leaving them exposed to risk and compliance issues. This session details techniques and case studies for managing XML data within a SOA, profiling the management capabilities of DB2 with pureXMLtm. Issues related to storage, audit and retrieval will be discussed, along with reliability and performance.

Transforming XML data with XSLT

EXtensible Markup Language (XML) has become the standard for data interchange and eXensible Stylesheet Language (XSL) is the language for transforming data from one XML application to another. For example, in an SOA solution, you may need an XSL transform to exchange information among different services. In this hands-on session you use the tools of Rational Application Developer to create an XSL file to convert data between two XML schemas and then run the transform. Much of the knowledge gained in the "Introduction to XSLT" session is put to practical use in this lab.

Entry skills

- Familiarity with XML, XML schema, and DTD
- Conceptual knowledge of XSL from attending session "Introduction to XSLT" or equivalent background

Exit skills

- Ability to create and modify XSL stylesheets and XSLT transforms
- Familiarity with the XML tools of Rational Application Developer

Introduction to XSLT

EXtensible Markup Language (XML) has become the standard for data interchange and eXensible Stylesheet Language (XSL) is the language for transforming data from one XML application to another. For example, in an SOA solution, you may need an XSL transform to exchange information among different services. This lecture gives an introduction to XSL transforms (XSLT). The focus is on XML to XML transforms for the purpose of converting data that is valid for different XML schema, rather than on XML to HTML or other transforms that prepare data for presentation. This session provides the background for a subsequent hands-on session.

Entry skills

- Familiarity with XML, XML schema, and DTD, Familiarity with programming concepts such as subroutine invocation and recursion
- Knowledge of a particular language is not required

Exit skills

- Ability to read and understand XSL files,
- This lecture prepares participants for the session: Transforming XML data with XSLT

* messaging, integration and connectivity

The overall purpose of this sub-track focuses on services connectivity. Service connectivity is an IT-centric entry point to SOA that encompasses a range of software and solutions designed to help simplify your IT environment with a more secure, reliable and scaleable way to connect within and beyond your business. Through a lifecycle approach we can help you model, assemble, deploy and manage your tactical SOA-based projects to help connect your systems in a way that grows as you grow. We also can help you establish SOA governance guidelines to enhanced organizational efficiency.

Using WebSphere Adapters with WebSphere ESB 6.0.2

Do you need to integrate enterprise applications (e.g. SAP, Siebel, JD Edwards, Oracle E-Business) with IBM's WebSphere ESB? This session will discuss the basics of the WebSphere Adapters v6.0.2 and show how they can be used with WebSphere ESB (WESB) v6.0.2. We will examine configuring Adapters, using Enterprise Service Discovery to gather metadata about enterprise systems like SAP, and wiring the automatically-created SCA components in a WESB mediation module. High availability configurations will also be touched on.

Entry skills

- General knowledge of WebSphere ESB

Exit skills

- General Knowledge of WebSphere Adapters architecture and usage
- General knowledge of how to use Enterprise Service Discovery
- General knowledge of how to wire Adapter components into WESB mediation modules

WebSphere Adapters enablement for series of IBM Products

TBD

WebSphere Application Integration Portfolio Overview

This session will provide a basic overview of the WebSphere portfolio of application integration products. Come learn about WebSphere MQ, WebSphere Message Broker, WebSphere ESB, WebSphere DataPower SOA Appliances, WebSphere TX (formerly DataStage TX), and WebSphere Adapters. This session will cover the role of each product in the portfolio as well as the current capabilities of each product.

Entry skills

- Basic concepts like "Web service", "Web application".

Exit skills

- A basic understanding of how the various WebSphere integration products work and how they can be used together or alone

Complex Event Processing in the Advanced Enterprise Service Bus

Many computer-based systems exist that allow for the handling of a single "event". There are many types of events, such as a withdrawal from an ATM, the passage of a railroad train past a detection point, the placement of an order for clothing on the Internet. While many "business rules" engines in the market allow for complex processes following the occurrence of a single event, there are not many facilities available to handle the correlation of sequences of events. IBM's CEP is a generalized, cross industry tool that allows for efficient and effective correlation of events into meaningful business situations. This presentation introduces you to the fundamental concepts of complex event processing, how it is implemented in the WBI Broker and discusses several real-life usage scenarios. A demonstration will be given, showing the features and functions of IBM's CEP.

Entry skills

- A basic understanding of the features and functions of WebSphere Message Broker

Exit skills

- A basic understanding of complex event processing in general and how WESB in particular does it.

WebSphere MQ Certification Review

Are you planning to take any of the WebSphere MQ V6.0 Certification Tests while you're here at the Conference? Is the thought of taking that certification test keeping you awake at night? Then come to this session for a last minute tune-up. You will have the chance to review sample questions, talk about test strategies, and get answers to your questions about the topics covered by: 994—System Administration test, including WebSphere MQ planning, installation and configuration, distributed queuing and clustered queue management, operations, problem determination, and security, 996—Solution Design test, including assessing and positioning WebSphere MQ, WebSphere MQ solution concepts, designing a solution using WebSphere MQ features, and message and naming standards.

Entry skills

- Preparation for one or more of the above tests

Exit skills

- An improved chance of passing those tests.

DataPower SOA Appliance Hands-On Lab

This hands-on lab will provide a series of exercises to configure DataPower services to handle XML documents and proxy Web Services. SOA Appliances are critical components for security and performance. Their multi-faceted roles as DMZ security gateway, ESB on-ramp, multi-protocol transformer, or back-end performance accelerator makes them invaluable to SOA architectures. Learn how to implement some of this functionality in this fun and exciting hands-on lab.

You will:

- Create a Loopback XML Firewall
- Create a Transforming XML Firewall
- Investigate Troubleshooting Tools
- Create a URL Rewrite Policy
- Create a new WS-Proxy
- Implement Service-Level Monitoring
- Add a processing filter action
- Add Custom Error Handling
- Use Multiple WSDLs
- Config Automatic WSDL Refresh

The (XML) Threat is Out There

Technologies such as SOA, Web Services, SOAP, and XML are the new frontier for hackers and there are whole new classes of threats built around these “firewall-friendly” technologies. This session will show several classes and types of XML attacks, how they can be used to affect availability in Web services hosts, and how DataPower can be used to prevent such attacks. Systems based on XML, such as those hosting Web Services and SOA interfaces, are susceptible to attack. Most large corporations that get attacked keep it private, hence there is no “buzz” to build awareness. If you don't take specific steps to protect yourself, you are exposed. DataPower SOA/security devices provide many protections against these types of threats. A real scenario is illustrated to point out the ease of compromising these types of systems. If you are hosting Web Services or SOA interfaces, you are exposed until you take specific steps to counter any potential attacks.

Entry skills

- Basic knowledge of SOA technologies, Web Services, SOAP, XML
- Basic security terms like “denial of service attack”

Exit skills

- An understanding of how to counter security attacks aimed at these technologies.

Specialized Hardware for SOA Integration and Connectivity

IBM SOA appliances are purpose-built network devices that simplify, help secure, and accelerate your XML and Web services deployments. These specialized SOA appliances redefine the boundaries of middleware while extending SOA infrastructure in an easy to deploy, drop-in solution, offering an innovative, pragmatic approach to harness the power of SOA while simultaneously enabling organizations to leverage the value of their existing application, security and networking infrastructure investments. Key topics to be addressed in this session include: The importance of SOA appliances to the SOA foundation, Extending ESB functionality using SOA appliances, How to protect valuable data exposed by XML Web services in an SOA, Centralized Web services management, service-level management and SOA policy, Integrated message-level security.

Entry skills

- Basic knowledge of Web services and XML design and deployment.

Exit skills

- An understanding of how IBM SOA appliances can be used to assist in such deployments.

Use Customer Cases and Scenarios for SOA Appliances

WebSphere DataPower SOA Appliances redefine the boundaries of middleware, extending IBM's SOA foundation with specialized, consumable, dedicated SOA appliances that combine superior performance and hardened security for SOA implementations. In deployments since 2002, these SOA appliances are continuing to create tremendous customer value by simplifying, helping secure and accelerating SOA. This session details strategic scenarios, customers' SOA appliance deployments, industry use cases and application examples including integration with other leading IBM products such as WebSphere MQ, WebSphere Application Server, WebSphere Service Registry and Repository; IBM zSeries, iSeries, Tivoli Access Manager, Federated Identity Manager and ITCAM for SOA.

Entry skills

- Basic knowledge of SOA design and deployment.

Exit skills

- An understanding of how IBM SOA appliances can be and have been used in real-world customer situations

Enterprise Service Bus: Architectural and Product Overviews

This session will review the core principles and capabilities of an Enterprise Service Bus from a technical perspective. It will explore how these are delivered by the IBM ESB family, WebSphere Enterprise Service Bus, WebSphere Message Broker and WebSphere DataPower SOA Appliances, and how they can be enhanced through integration with other SOA Foundation products to provide capabilities such as dynamic service selection and service management.

ESB Performance Best Practices

The Enterprise Service Bus is a strategic component in any SOA solution. This session discusses performance considerations around topology, data flow, and overall architecture that impact an ESB. It will also cover tuning advice and lessons learned from actual customer deployments.

Entry skills

- Understanding of ESB concepts and how it is used in a complete application environment

Exit skills

- An understanding of how to improve the performance of an ESB itself and the performance of other parts of the environment interacting with the ESB.

ESB Best Practices

This session will examine the best practices across a lifecycle for building, testing and deploying an Enterprise Services Bus (ESB). It will also discuss best practices for planning and designing an ESB, Governance best practices for putting an ESB in place in a customer environment, quality assurance best practices for testing the ESB infrastructure and applications deployed to it, and implementation best practices for your ESB. This includes operational aspects, for example, how to maintain an existing ESB deployment, add additional services or version existing ones. We will discuss several examples of customer ESB's showing these best practices, and the results if they were (or were not) put in place, and show how these best practices apply in the context of an overall SOA Architecture and Governance process.

Entry skills

- Understanding of ESB concepts and how it is used in a complete application environment

Exit skills

- An understanding of the best ways to use an ESB throughout the application lifecycle.

Guidelines for choosing your ESB

TBD

Messaging featured session with panel Q&A

Andrew Bainbridge and product strategists share their vision on technical trends and future directions for the WebSphere Application Integration family of products, including WebSphere MQ, WebSphere Message Broker and WebSphere ESB. A short presentation will be followed by discussion with a panel of IBM product developers and technical leaders who will be available for a question and answer session.

Entry skills

- Basic understanding of the WAI family products, key concepts and key product features

Exit skills

- Your questions on these products answered.

* messaging, integration and connectivity

Introduction to the default messaging provider in WAS

This session introduces the Java Messaging Service (JMS) in WebSphere Application Server (WAS) and its mapping onto the Service Integration Bus (SIB). The basic concepts of SIB are covered.

Entry skills

- Knowledge of basic messaging concepts such as “messages”, “queues”, “topics”, etc.

Exit skills

- An understanding of the features provided by the default messaging provider in WAS

Using WebSphere MQ and WebSphere Application Server together

This session covers how to access WebSphere MQ from applications running in WebSphere Application Server (WAS) and vice versa. We will cover use of the WebSphere MQ JMS provider as well as connecting to WMQ from the Service Integration Bus using both the WebSphere MQ Link and WebSphere MQ Server constructs.

Entry skills

- An understanding of the features provided by the default messaging provider in WAS (which is covered in session Introduction to the default messaging provider in WAS)

Exit skills

- How to make applications running on MQ interact with WAS applications, how to make applications running on WAS interact with MQ applications.

Early experiences with solutions using WebSphere ESB

Things are moving fast in the WebSphere stack—has it really been over a year since WebSphere ESB first went GA? Let’s look at some of the early experiences using this ESB component of IBM’s SCA based technologies. This session focuses on prime examples of common solution requirements which have led to proof-of-concepts, proposals, pilots and early implementations using WebSphere ESB. We will explore several of these using case-studies. What lessons have been learned and what best practices have emerged? What seems to work

well and what are good strategies for success? Detailed knowledge of WebSphere ESB is not assumed as some brief introduction to this offering will be included.

Entry skills

- Basic knowledge of ESB concepts

Exit skills

- An understanding of some usage scenarios from real customer experiences
- Appreciation of project and technical considerations and emerging best practices

Introduction to WebSphere ESB

WebSphere Enterprise Service Bus builds on the solid foundation of WebSphere Application Server and Service Component Architecture to provide a platform for implementing an ESB. It provides the features expected for such a platform, including protocol translation, XML transformation and routing across Web Services and messaging technologies. In this session, we will explore the technical features which facilitate the development of ESB solutions. This session includes an update on the major new features contained in the V6.0.2 release.

Entry skills

- General knowledge of ESB concepts

Exit Skill:

- Basic understanding of SCA concepts,
- A good understanding of the features of WebSphere ESB
- A basic understanding of how to develop and deploy ESB solutions

Introduction to WESB version 6.0.2

TBD

WESB 6.0.2 Update including Performance

This session will provide a detailed technical description of WESB V6.0.2 focusing on the new features added in this latest release, particularly as they relate to performance.

Entry skills

- Understanding of previous version of WESB

Exit skills

- Understanding of features new in V6.0.2 and how this new version performs.

WESB Admin— Deployment, Resources, Dynamic Modification

This session includes a detailed look at the capabilities of WESB made available to the SOA deployer/administrator through the administrative console and scripting.

Entry skills

- Understanding of the basic functions of WESB

Exit skills

- A good understanding of how WESB can be administered via the console and via scripting.

WESB ND / XD Topologies

This session is a deep dive look into WebSphere Enterprise Service Bus (WESB) issues which need to be considered in configuring ND topologies and areas where XD can help.

Entry skills

- Basic concepts of ND such as clustering, load balancing and failover

Exit skills

- Understanding of WESB issues peculiar to ND environments
- Understanding of how WebSphere XD features can help with these issues.

Using Web services and the WebSphere Service Registry and Repository with WebSphere ESB

This session includes a detailed look at how WebSphere Service Registry and Repository (WSRR) enables dynamic service selection within the WebSphere ESB.

Entry skills

- Knowledge of SOA and services concepts and technologies, especially services discovery

Exit skills

- An understanding of how WSRR works, its purpose and features.

Administration and Operations Options for WebSphere Message Broker

In this session we will cover a broad range of administration capabilities in WebSphere Message Broker (WMB). We will cover Eclipse-based graphical administration, command line administration and programmatic administration. Topic areas will include deployment, operations, runtime versioning. Come to this session to understand the right ways to effectively administer and operate the broker.

Entry skills

- Knowledge of the basic features of WMB.

Exit skills

- An understanding of how to administer a MB installation using the graphical interface, commands and scripting, or Java APIs.

WebSphere Message Broker Architecture and Strategy

Whether you're new to application messaging, or already an experienced user of WebSphere MQ transports, you'll want to know how to connect together all the applications in your enterprise in innovative ways to provide enhanced and dynamic functionality. Come and find out how the powerful components of WebSphere Event and Message Brokers provide a flexible, transport independent messaging backbone. Extending the Event Broker's message distribution capabilities, Message Brokers allow you to perform more complex integration including message transformation using ESQL, Java, Graphical mapping and XSLT, and message enrichment using external data sources, such as a relational database. Understand how the Eclipse visual tooling allows you to construct graphically the application connectivity requirements using your own, IBM's and third party supplied components. There will also be a product demonstration to allow you to understand the kind of processing you can achieve!

WMB Hands-on— Web Services Lab

WebSphere Message Broker V6 provides the ability act as both a Web Services requester and a Web Services provider. This Lab provides a step-by-step hands-on tutorial showing you how, from a newly installed V6 broker, to create a simple a message flow that provides a Web Services front for a legacy application. The lab will demonstrate the HTTP nodes, the new MQGet node and the ESQL used to perform the transformation between the SOAP based Web Service Request and a Custom Wire Format (C-based) legacy application.

Real World Experiences with WebSphere Message Broker

This session is designed to walk you through the various aspects of implementing and running the Message Broker in a production environment. Numerous examples of how not to set up the environment, support techniques ('you did WHAT?'), and common usage issues will be discussed.

WebSphere Message Broker and MQ Publish Subscribe technologies

To complement the point-to-point messaging style, WebSphere MQ and WebSphere Message Broker also feature Publish Subscribe capabilities for distributing messages to multiple recipients. This session describes the Publish Subscribe messaging model, together with the MQ and JMS application programming interfaces. We'll describe how these interfaces can be used with both MQ and Message Broker. We'll also discuss the different transport options available including Realtime and Multicast capabilities, and when to use different Publish Subscribe configuration in some real-world scenarios

WebSphere Message Broker: Designing for Performance

This session will help you design an efficient and effective WebSphere Message Broker implementation from a performance perspective. We'll discover that there are many factors that determine the level of performance achievable within a WebSphere Message Broker message processing system. We'll help you understand the critical factors for high performance, things such as message structure, message navigation and message copying, business logic processing costs, interaction with resource managers such as MQ and databases, and application messaging styles. This session looks at key design and configuration choices and how they affect these critical factors. This session will enable you to get the most from your brokers; allowing you to design an optimally performing broker implementation, or understand and improve the implementations you already have in your enterprise.

WebSphere Message Broker: File Processing options

Increasingly, users are integrating file based systems into their ESB as critical integration technologies. There are a raft of possibilities for processing files with WebSphere Message Broker, including File Extender nodes, VSAM and QSAM nodes, PM4Data, WTX and JTEXT adapters. This session will cover all the major technologies so that you can understand how to get the most for each and when they are most applicable.

WebSphere Message Broker: Using Web Services Effectively

This session will demonstrate how to use WebSphere Message Broker effectively in Web Service scenarios. You will understand how to turn existing applications to Web Services. After a brief overview of Web Services and related technologies, such as SOAP, WSDL and UDD, then session examines in detail the nodes and parsers of WebSphere Message Broker v6 which turn it into a powerful Web Services consumer, provider and intermediary. WebSphere Message Broker provides a powerful ESB technology to enable your enterprise for Web Services.

WebSphere Message Broker: WSRR integration and exploitation

This session will explain how WebSphere Service Registry and Repository, the key underpinning for SOA governance, can be exploited by WebSphere Message Broker. After a brief introduction to the two technologies, we'll spend time understanding in detail the new Message Broker nodes which provide registry integration. We'll also discuss common usage scenarios and provide a real-life customer example which uses registry to bring governance to WebSphere Message Broker ESB technology.

Transformation options for WebSphere Message Broker V6

There are many different ways to achieve message transformation in WebSphere Message Broker, using ESQL, Java, Mapping and XSL transformation technologies. Use this session and find out the core strengths of each technology and how to get the most from them in different scenarios. After this session, you'll have the broad understanding required to understand when to use the different transformation options.

Practical Examples of Message Modeling

TBD

Introduction to Micro Broker

Are you trying to connect your people who work outside the office to the enterprise? Do you need to know if an unmanned device is working, do you need to obtain information from that unmanned device? This session will explore how Micro Broker can provide your enterprise with information from the field, be that a sales person using a laptop computer or PDA, a fire alarm system or a sensor monitoring a pipe line. Micro Broker provides the piece in the jigsaw, allowing a true end to end messaging solution when used in conjunction with other IBM messaging products.

What's new in WebSphere Message Broker?

This session will discuss a detailed overview of WebSphere Message Broker, IBM's Advanced Enterprise Service Bus, including highlights of the latest additions to the Message Broker since the Version 6 release. This session will highlight some of the exciting new features in Message Broker, including significant enhancements to the Message Broker Toolkit. In addition, this session will provide insight into the strategic direction for the Message Broker, including the Message Broker's critical role in helping IBM clients on their path to Service Oriented Architecture.

Entry skills

- Basic concepts in messaging such as messages, queues and mediation.

Exit skills

- An understanding of WMB, its features, latest additions and future directions

Introduction to WebSphere Message Brokers Toolkit

This session will gently introduce WebSphere Message Brokers Toolkit. If you are new to WebSphere Message Broker or it is in your future, this session is your "Hello World" introduction to the tools for it.

Entry skills

- None

Exit skills

- A basic understanding of the pieces that make up a simple message broker flow, and how to author those pieces.

WMQ and WMB on z/OS Problem Determination lab

WMQ and WMB are often viewed as confusing when trying to determine what may be causing a problem. This session will show you where to look for problems, how to find the appropriate documentation, and how to resolve some basic problems.

A Practical Approach to WebSphere MQ Security on z/OS

This session takes a step by step practical approach to WebSphere MQ for z/OS security. It looks at some of the ways you could use the facilities provided by WebSphere MQ for z/OS to control access to your WebSphere MQ resources.

Entry skills

- Basic knowledge of WebSphere MQ

Exit skills

- Knowledge of the security features of MQ for zOS

Advanced WMQ Queue Manager Clusters

This session builds on the Introduction to WebSphere MQ clustering, session, and covers advanced workload balancing (including some of new features introduced in WebSphere MQ V6.0), routing messages into and out of clusters, overlapping clusters, further concepts and administration.

Entry skills

- Introduction to WebSphere MQ clustering or equivalent

Exit skills

- A deeper knowledge of WMQ clustering

Architecting Solutions for Performance on Distributed WebSphere MQ

Various qualities of service are provided by MQ with higher throughput balanced with the higher resilience. The Solutions architect will combine various options of MQ so the business objective of a well performing solution can be achieved. Solutions fail if excessive use is made of heavyweight resources (CP, Disk, Memory). This session will identify various MQ heavyweight objects so alternative designs could be considered to provide an efficient solution.

Entry skills

- Basic knowledge of MQ concepts and architecture

Exit skills

- An understanding of how to balance various configuration choices in MQ with use of heavy-weight resources to achieve a target QOS

Getting your z/OS queue manager into production

This session discusses the following topics often overlooked during the design and deployment of an MQ solution: HA considerations including log placement - naming logs so you avoid catalog failure problems, Collection of stats, Using Monitoring, e.g. Tivoli Omegamon such as channel stop, queue full Backup of page sets and CF, Minimum RACF definitions, Using Extended Security, Making changes to production - change control, change management Disaster recovery -loss of CF, DB2,RRS, CICS etc., Management of digital certificates e.g. check expiry and renew, Use of firewalls, Handling poisoned messages.

Entry skills

- Broad knowledge of MQ, especially queue managers.

Exit skills

- An understanding of more esoteric topics and “gotchas” often not found until deployment to production begins.

Hints and Tips for WebSphere MQ Application Programming

This session covers various aspects of the MQI and makes some recommendations on the options and their usage. It also warns against some of the common mistakes. Subjects such as message persistence, transactions, data conversion and message sizes are covered. Whether fairly new to MQ or an experienced MQ programmer come along and hear the good, the bad and the ugly of the MQI. Before attending this session, you should have a basic knowledge on WebSphere MQ Application Programming.

Introduction to the WebSphere MQ Queue Managers

The WebSphere MQ Family provides a suite of products enabling the full spectrum of application integration environments from the simplest pair of applications requiring basic connectivity and data exchange to the most complex business process management environments. This session introduces the foundation product of the Family - the WebSphere MQ queue managers. This session will explain the basic rationale of the message/queuing family, the primary features and functions of the queue manager products and point out which other sessions may be of interest at the conference. The session concludes with a brief overview of the other WebSphere

MQ Family members, pointing out their primary features and their positioning within the Family. No prior knowledge of any WebSphere MQ Family products is assumed.

Entry skills

- Basic internet concepts only.

Exit skills

- A broad understanding of the WebSphere MQ family of products, their primary features and how they can be best used for a particular situation.

Introduction to WMQ Queue Manager Clustering

WebSphere MQ provides support for clustering of queue managers. A cluster is an easily administered, highly available, scalable collection of queue managers. WebSphere MQ applications can take advantage of clustering with the minimum of effort. This session covers design considerations, system administration, basic workload balancing, problem determination and some internals of clustering.

Entry skills

- Knowledge of basic messaging concepts, knowledge of the basic features of WebSphere MQ.

Exit skills

- An understanding of how queue managers can be clustered, and the advantages of doing this.

Keeping Channels Up and Running

This session discusses some techniques for keeping your WebSphere MQ channels up and running, concentrating on TCP/IP channels. We will look at the kinds of problems that can occur and the various mechanisms by which your channels can recover from or avoid these problems. This discussion will cover features such as Retry mechanisms, Dead Letter Queue, HeartBeats, AdoptMCA, TCP/IP KeepAlive, Batch Interval, Batch HeartBeats and Disconnect Interval.

Entry skills

- Basic knowledge of MQ features and use, basic TCP/IP concepts

Exit skills

- An understanding of the issues and techniques involved in keeping MQ channels operational

Understanding and Using WMQ Administration and Event Interfaces

Lots of information can be gathered from WMQ queue managers, and lots of administration can be done, using MQ messages. This session goes into details of these events, and will show how to write and understand such messages. It also shows how applications might generate their own reports. It covers PCF programming, including its use on z/OS.

WebSphere MQ Channel Security with SSL

You've gone to great lengths to control who has access to your queues, but would you care if someone could see the contents of your messages as they were transported across the network to another queue manager? Have you thought about encrypting the traffic across your channels? Would you like to be able to automatically authenticate the partner queue manager? Would you like all this to be integrated with your channels and provided free with WebSphere MQ? In WebSphere MQ v5.3, a protocol known as Secure Sockets Layer (SSL) was introduced into MQ channels. It is a protocol widely used in many products which transport information across insecure networks; you are probably already using it with your Web browser, for example. The SSL protocol provides us with the security benefits of partner authentication, encryption and message integrity.

Entry skills

- Basic knowledge of WebSphere MQ concepts and features

Exit skills

- An understanding of how to use SSL to further secure your messages as they flow across the network.

WebSphere MQ for z/OS — Advanced Shared Queues

This session introduces the WebSphere MQ clients: what they are; on which platforms they run, and how customers use them in their applications. We will mainly focus on the 'C' MQI client but will also introduce the Java and XMS clients. The session will discuss a number of basic implementation considerations including when it may be appropriate to use each client. The intent is to familiarize you with the things necessary to succeed with a simple WebSphere MQ client implementation.

WebSphere MQ Extended Security Edition

This session will describe the new features and value of using WMQ ESE. WMQ ESE is a comprehensive integration and security management solution that combines IBM WebSphere MQ and IBM Tivoli Access Manager for Business Integration into a single product offering. WMQ ESE offers significant additional security services over those included in IBM WebSphere MQ. These include: – Application-level data protection including digital signatures of individual messages and optional encryption for applications running on either WMQ servers or WQM clients, – Access control on Queue resources for local applications running on WMQ Servers, – Access control of Server queue resources accessed by remote applications using the WMQ client, – Detailed, message level, auditing of enforcement of security policy – Remote management of these security policies across an enterprise via a Web browser interface.

WebSphere MQ for distributed platforms — Product Internals

This session discusses how WebSphere MQ is implemented on distributed platforms. This is an overview of the internal architecture of the queue manager, and it shows how the various components interoperate.

Entry skills

- Basic MQ concepts and features

Exit skills

- Knowledge of broad implementation details of MQ on the distributed platforms

WebSphere MQ for z/OS - Introduction to Shared Queues

This session explains what shared queues are, how channels can be configured with shared queues, and how applications can exploit shared queues to achieve high availability and scalability. This session is ideal for those who have limited or no knowledge of shared queues and wants to gain a basic understanding of what is provided.

Entry skills

- Basic WebSphere MQ concepts and features, basic concepts in availability and scalability

Exit skills

- Understanding of shared queues within WMQ.

WebSphere MQ for z/OS - Product Internals

This session discusses how WebSphere MQ is implemented on z/OS. Come hear an overview of the internal architecture of the queue manager, showing how the various components interoperate.

Entry skills

- Basic MQ concepts and features

Exit skills

- Knowledge of broad implementation details of MQ on the zOS platform

WebSphere MQ Performance for z/OS

This session looks at how you should define and use your z/OS queue managers in an enterprise so that you gain the best performance. The session will also cover how to identify performance problems, and describe what you can do about them. It also includes some of the performance and scalability changes introduced in V6.

Entry skills

- Basic MQ concepts and features

Exit skills

- A basic understanding of how to performance tune MQ on the distributed platforms plus where to learn more.

WMQ JMS and XMS Programming

This session is an introduction to the Java Message Service as an API for performing messaging using WebSphere MQ or another messaging provider from Java. It provides guidance on writing JMS applications, for both point-to/point and publish/subscribe messaging. Differences between MQI application programming and JMS are highlighted; however, a detailed knowledge of WebSphere MQ or the MQI is not required. A basic understanding of Java application development is assumed. This session will also introduce IBM's non-JAVA version of JMS known as the IBM Message Service (XMS) client.

Entry skills

- Basic Java programming skills, basic MQ concepts and features

Exit skills

- An understanding of how to write messaging code using JMS and XMS

WMQ, Web services, and the Web

This session provides an overview of some of the new interfaces and technologies being explored to enhance WebSphere MQ's Web services support, and to make WebSphere MQ more accessible from the Web. It includes details of: The HTTP -> MQ SupportPac which enables direct access to MQ from Web browsers and HTTP clients, WebSphere MQ's new API for the PHP scripting language (Simple Asynchronous Messaging or SAM), Updates to SOAP/JMS and the WebSphere MQ Transport for SOAP support

Entry skills

- Basic MQ concepts and features
- Basic Web Services concepts

Exit skills

- Understanding of how MQ can be used in support of Web services architectures

WebSphere MQ Update

This session will give the latest information on WMQ, including a preview of function for the next version. It will concentrate on technical details of new APIs, Administrative interfaces and integration points with other products, including higher-level solutions in the SOA stack.

Entry skills

- WMQ features in prior releases

Exit skills

- Knowledge of the latest features of WMQ, upcoming features and future directions

Hardening WebSphere MQ Security

Is your WebSphere MQ network secure? Are you sure? Most WebSphere MQ implementations are vulnerable in some way, including a surprisingly large percentage that unknowingly allow anonymous administrative access. This presentation goes beyond the basics to show how the various WMQ security components interact, as well as critical configurations that are commonly overlooked. Topics include hardening against anonymous administrative authority, user impersonation and denial of service attacks.

Entry skills

- Basic MQ concepts and features,
- Knowledge of basic security in WMQ

Exit skills

- The ability to conduct a thorough security assessment of an MQ environment and make any necessary remediation.

High Availability for WMQ and WebSphere Message Broker

WebSphere MQ can be made highly available using features of the product or operating system, on distributed and z/OS platforms. This session will describe and compare these features, and show how they can be effectively used together for extremely reliable environments. The high availability features of WebSphere Message Broker and advice on adding your own applications to an HA configuration are also discussed.

Entry skills

- Basic MQ and MB concepts and features,

Exit skills

- Understanding of how to achieve high-availability in an MQ/MB environment

WPS/WESB 6.0.2, JMS and WMQ Support and Best Practices

WebSphere Process Server (WPS) and WESB rely on messaging support for information exchange with a variety of applications and resources. This session will introduce SCA Imports and Exports for JMS, JMS/WMQ and WMQ. It also covers concepts like Interface Binding, Method Binding (Function selectors) and Data Binding. The major focus of this presentation is the best practices on WMQ legacy application integration, which will cover MQLink replacement, Function Selectors, Content Based Routing and COBOL data processing. Finally best practices of integrating a WPS/WESB clusters with a WMQ Cluster will be discussed.

Entry skills

- Basic WPS and WESB concepts and features

Exit skills

- Knowledge on integrating legacy MQ applications with WPS and WESB

Using WebSphere Transformation Extender to support your SOA

TBD

WebSphere Transformation Extender within the WebSphere Family

WebSphere Transformation Extender serves as IBM's universal transformation engine platform. In addition to the powerful stand-alone functionality, WTx can be used to extend the modeling, connectivity, and transformation capabilities of many other IBM products, such as WebSphere Message Broker, WebSphere ESB, WebSphere Process Server, WebSphere Partner Gateway, and others. This session will provide an in-depth introduction to the WTx family of products as well as the critical role they play as part of the WebSphere family. It will also discuss potential services offerings and provide a roadmap with our plans for further integration of WTx and its tools into the IBM portfolio.

Entry skills

- Basic WebSphere family products concepts

Exit skills

- Understanding of how WTx fits in with the rest of the family of products

Web portal software provides a single access point to Web content and applications, personalized to each user's needs. This sub-track highlights how IBM WebSphere Portal software extends the portal concept with support for workflows, content management, simplified usability and administration, open standards, security and scalability.

Developing Composite Applications and Mashups for WebSphere Portal

Data is everywhere. Weather, logistics and customer data are accessible through information conduits so end-users can make rapid and informed business decisions. In the session, we will discuss the Java Portlet Specification, Java Server Faces, Service Data Objects, Composite Applications and Mashups. Come to this session to learn how to leverage JSF/SDO and WebSphere Portal to create new business value through composite applications / mashups. We will be using a hands-on lab to work with the technologies and reinforce topics covered in the presentation.

Geneva Team Collaboration Overview, Architecture and Roadmap

Geneva is Lotus' next generation collaboration offering that allows teams and communities to share information and collaborate through places accessible through Web browsers, Sametime and Notes clients, Windows Explorer and Microsoft Office as well as via public Web service and REST interfaces. This session gives an overview of typical usage scenarios, describes the functions and components provided by Geneva such as Document Libraries, Team Wikis, Team Blogs, Forums, Lists, etc. and how they can be used in these scenarios. It also provides an architecture overview of Geneva which is powered by WebSphere Application Server and WebSphere Portal technology including typical deployment options and explains how Geneva will integrate with other offerings such as WebSphere Portal, Sametime, and Ventura. The session concludes with a live demo showcasing the current capabilities of Geneva and roadmap information on future development for Geneva.

Entry skills

- Basic internet/Web concepts

Exit skills

- An understanding of the Geneva product and how it can be used with other IBM products

JSR168 portlets in WebSphere Application Server

This session covers the programming model for JSR168 portlets in the WebSphere Application Server. It will explain the most important new concepts that distinguish programming JSR168 portlets from programming servlets. The session will also help you to make good use of portlet-specific programming concepts including some important best practices. We will provide detailed explanations on how to develop portlets and portlet applications by demonstrating examples.

Entry skills

- Basic programming experience with servlets

Exit skills

- Good understanding of what makes portlets preferable to servlets in some situations, Comprehensive overview of the programming model for JSR portlets,
- Ability to make optimal use of the provided programming model

Common WebSphere Application Server problems in portal environment

WebSphere Portal Server runs on top of WebSphere Application Server. As more customers adopt WebSphere Portal Server, the WebSphere Serviceability Team has seen an up tick in the number of engagement in WebSphere Portal Server environments. There are some common WebSphere Application Server problems which appear in the WebSphere Portal Server environment. This session will discuss those common problems and how to avoid them.

Entry skills

- Basic WAS concepts and features
- Basic WPS concepts and features

Exit skills

- An improved knowledge of how to install and configure WPS with its underlying WAS to avoid certain common problems

Business User Workflow In IBM WebSphere Portal 6.0

One of the new key features of IBM WebSphere Portal Version 6.0 is the support for business users to easily create collaborative, human facing workflows for composite portal applications. By using the Workflow Builder Portlet users can easily assemble workflow-driven applications with no need for programming or process deployment. This capability builds on top of WebSphere Process Server and the Human Task manager as the execution environment and fully integrates into WebSphere Portal. This session will give an overview of what Business User Workflow is, what type of scenarios it is targeted for, what features and limitations it provides and how it is positioned relative to native Process Server development. Find out more about the details behind this feature that allows Business users to flexibly create and manage their own workflows and easily assemble and customize workflow-driven applications for WebSphere Portal.

Entry skills

- Basic WebSphere Portal concepts and features,

Exit skills

- An understanding of the Business User Workflow feature in WebSphere Portal

WebSphere Portal: The front end to SOA

Portals provide a framework enabling customers to create Web sites that integrate their applications and information, and as a result can greatly improve the productivity and efficiency of the users of the site. The WebSphere Portal platform leverages components from across the IBM Software Group to provide a framework that provides efficient creation and deployment of composite applications built on a service-oriented architecture (SOA), enabling integration of the user experience, providing role-based access to integrated business processes, enterprise applications, content and search services, security and user profiles, along with a complete set of application development tooling. This presentation explains the key features of WebSphere Portal with an emphasis on what is new in the latest release of WebSphere Portal V6.0 as well as a glimpse of some of the things that are coming soon.

Entry skills

- None

Exit skills

- General knowledge of WebSphere Portal features, specific knowledge of features in V6.0
- An understanding of some future directions

Where are the Portal Standards heading?—JSR 286 and WSRP V2

IBM WebSphere Portal foundation supports use of application and portal standards, including the Standard Portlet API (JSR 168) and Web Services for Remote Portlets (WSRP) published specifications. This presentation will provide an overview of the current support for these standards in WebSphere Portal and how they can be best applied. Understand the strategic direction of portal and portlet standard APIs and how you can apply the capabilities in your portal applications. Entry skills Basic Understanding of JSR 168 and WSRP v1, Exit skills Good Understanding of the new JSR 286 and WSRP v2

Web 2.0, AJAX, and REST in WebSphere Portal

This session gives an overview of Web 2.0, AJAX and REST, and what WebSphere Portal 6 and related products offer as of today in this context. It will also introduce the technical vision and outline of how WebSphere Portal will adopt Web 2.0 concepts and exploit AJAX and REST to a greater degree in future releases. The session concludes with a look to Web 2.0, AJAX and REST features planned for WebSphere Portal and related products in the future, and a live demo.

Entry skills

- Basic WebSphere Portal concepts and features,

Exit skills

- An understanding of how Web 2.0, AJAX and REST relate today and will relate tomorrow in WebSphere Portal.

Workplace Web Content Management—Wikis, Blogs and Forums

In the 2007 WPLC deliverable “Geneva”, Web Content Management is extended to provide Wiki, Blog and Forum functionality in a templated application environment. This session will outline the power WCM adds to these well-known constructs and the enhancements to the templating user interface that make this an attractive collaboration solution for customers of all sizes.

Entry skills

- Basic knowledge of Wikis, Blogs and Forum on the Web

Exit skills

- How WCM relates to these

Creating Rich Internet (AJAX) Applications with WebSphere Portlet Factory

WebSphere Portlet Factory (WPF) helps to automate the creation of easy-to-use internet applications that include drag and drop, inline editing, and intelligent page refreshing. It uses standard AJAX mechanisms and widgets from the Dojo toolkit to provide this functionality. This session will show how to use WebSphere Portlet Factory to quickly build rich internet applications that use these exciting Web 2.0 technologies.

Entry skills

- Basic AJAX concepts and features

Exit skills

- Understanding of the features in WebSphere Portlet Factory which help create applications using AJAX features

IBM WebSphere Portal 6—Operational Architectures and Procedures

There are always two sides to architectures. Functional and Operational aspects need to be considered together to build successful solutions. This session describes the operation side of this equation. This session will provide you with an insight on how WebSphere Portal 6.0 can improve operation productivity and efficiency. New features like multiple LDAP support, Portal data separation, configuration management improvements and more will be presented. You will see how alternative portal operational architectures can be improved with WebSphere Portal 6.0. Architecture considerations presented in this session can be applied to define the most efficient and cost effective infrastructure to operate WebSphere Portal 6.0. The session concludes with an overview of the enhancements in tools and techniques for configuration management of WebSphere Portal.

Entry skills

- Basic Portal concepts and features

Exit skills

- An improved understanding of the operational aspects of Portal

IBM WebSphere Portal 6—Technical Overview

This session provides a technical overview of WebSphere Portal 6.0, and a detailed look at the technical details supporting the new capabilities of WebSphere Portal 6.0. The session will offer insights on the new features and how they can be exploited and customized to further improve the experience and productivity gains delivered by WebSphere Portal within your organization. The session provides an overview of the overall architecture and extension and customization points and how they can be used to create successful portal solutions that are ready for the future. The session will provide an overview major new features, including user interface technology improvements, templateable composite applications, attribute-based administration, programming model enhancements, improved operations, enhanced content services, search engine support, development tooling enhancements, updates to performance, and platform directions.

Entry skills

- None

Exit skills

- An understanding of WebSphere Portal V6.0 at a technical level

WebSphere Portal Best Practices

TBD

This sub-track features sessions on maintaining a secure, scalable and manageable infrastructure in the enterprise. IBM, through its Tivoli management product line, provides critical technology for managing and securing the infrastructure. When it comes to managing your SOA, there are a number of Tivoli products that can help. This sub-track also highlights how WebSphere Extended Deployment optimizes the resource utilization and management of your IT infrastructure while enhancing the quality of service for your business critical applications.

Lowdown on Performance—Web Services, WPS, WESB, WMB, WSRR and DataPower

This session will focus on SOA performance as it relates to the WebSphere portfolio. The portfolio view will start with basic Web services; build to choreographing and integrating these services across WPS, WESB, WMB, and WSRR and end with leveraging DataPower to accelerate the WebSphere products. Historical views on SOA performance will show how we have improved performance this and last year. Current release performance improvements as well as future improvements will be discussed. SOABench, a benchmark that focuses on SOA performance across these products will be discussed followed by a short demo. Finally, the discussion will focus on best performance practices when implementing SOA solutions.

Entry skills

- A basic understanding of the WebSphere family of products

Exit skills

- An understanding of how these products perform when used together and how this performance was measured.

Diagnosing and Solving Complex WebSphere Applications using ITCAM for WS

This session will focus on SOA performance as it relates to the WebSphere portfolio. The portfolio view will start with basic Web services; build to choreographing and integrating these services across WPS, WESB, WMB, and WSRR and end with leveraging DataPower to accelerate the WebSphere products. Historical views on SOA performance will show how we have improved performance this and last year. Current release performance improvements as well as future improvements will be discussed. SOABench, a benchmark that focuses on SOA performance

across these products will be discussed followed by a short demo. Finally, the discussion will focus on best performance practices when implementing SOA solutions.

Entry skills

- A basic understanding of the WebSphere family of products

Exit skills

- An understanding of how these products perform when used together and how this performance was measured.

How to Tame your Composite WebSphere Applications the ITCAM way?

The ubiquitous connectivity and the continuous refactoring of application components in a SOA have led to applications that are increasingly complex and interdependent. Managing an application to meet service level agreements involves identifying and isolating problems quickly without impacting applications in production. Once isolated, they need to be fixed and redeployed into production. This session will explore the various tools that are available in the ITCAM (IBM Tivoli Composite Application Manager) product suite. This session is a must attend for any IT Application Architect, Developer and IT Operations manager where they will learn how to keep their WebSphere Applications running smoothly with minimum down time.

Entry skills

- Basic knowledge of WebSphere Application Server and J2EE architecture and deployment concepts

Exit skills

- An understanding of how to use ITCAM to capture runtime data used to solve performance/availability problems.

Managing and Monitoring your SOA Environment using ITCAM for SOA

This presentation will discuss the challenges on managing both WebSphere and non-WebSphere based applications in an SOA environment. It will discuss the latest IBM product solutions for managing WebSphere and non-WebSphere based applications for performance, availability and enabling compliance to application governance. The management domain for application and product technologies will include JAX-RPC based Web services, SCA (Service Component Architecture) application modules, BPEL, and WebSphere Service Registry and Repository (WSRR) and Datapower

SOA Performance Best Practices

TBD

SOA Security

TBD

Composite Application Management—Lab

This is a scenario based lab that will provide hands on exercise in a pre-configured typical composite application environment using the following products in the infrastructure - IBM Tivoli Monitoring, ITCAM for WebSphere/J2EE, ITCAM for SOA, WSRR (WebSphere Service Registry and Repository), WebSphere Application/Process Server etc. A simple application will be used to demonstrate application problem occurrence, notification and resolution. We will also explore capabilities for a dynamic selection of an alternative service based of certain predefined situation using ITCAM for SOA pre-built SCA mediation primitive and registry components.

Service Management and SOA Governance

How can service management enable and provide effective SOA Governance? This presentation will look into the elements and challenges of SOA Governance. We will see how IBM Service Management approach can help SOA Governance. The presentation will also look at the operational infrastructure elements required to realize a practical service management in the context of SOA Governance. IBM Service Management portfolio from Tivoli and the related asset and service registry products from Rational and WebSphere will be explored.

SOA Security Solutions with Tivoli Security Products

The session includes coverage of Tivoli Security integration with Enterprise Service Bus products such as WebSphere Message Broker (WMB), WESB, and DataPower, as well as mainframe based resources. We demonstrate how to integrate Tivoli Federated Identity Manager (TFIM) and Tivoli Access Manager (TAM) into this infrastructure in a way that will accommodate the flexibility required of a SOA while providing the required level of security, identity management and governance within the environment.

Web Services Security

TBD

WebSphere XD Data Grid - Architecture and what's new in XD 6.1

TBD

WebSphere XD Operations Optimizer 6.1

This presentation will focus on all of the new content of WebSphere XD Operations Optimizer for both WebSphere (ND and CE) and non-WebSphere (BEA, WebLogic, Tomcat, PHP) servers. Specific emphasis is placed on XD's autonomic, monitoring, and health capabilities.

WebSphere XD Business Grid—Architecture and what's new in XD 6.1

TBD

WebSphere Extended Deployment (XD) Dynamic Operations

Hands-on Lab: WebSphere Extended Deployment (XD) Dynamic Operations, Gary Stone - Sr. Software Engineer, Jennifer Ricciuti - Software Engineer. This hands-on lab exercise will allow the students to work in a group of machines configured to emulate a realistic XD cell. The student will complete the configuration of the environment and test that the on-demand router is properly routing traffic to the application servers running in the cell. They will then use a load generation tool to generate client requests to the XD environment. By using initial configuration values they will see how XD Dynamic Operations perform application prioritization and placement in the cell. These tests will be monitored using the XD visualization tools to follow the changes to the servers configuration in real time.

Overview and what's new in XD 6.1

TBD

WebSphere XD — Best Practices

This session will demonstrate WebSphere XD Best practices, including areas such as (but not limited to), Health Management, Service Policy, Dynamic clustering, Application Placement and performance goals. Integration of XD to other stack products such as WebSphere Process Server (WPS) and Portal Server best practices will also be introduced.

How to Virtualize and Optimize your enterprise

This session will focus on how enterprises can use Virtualization and Optimization capabilities found in the WebSphere XD solution to increase the value of WebSphere and non-WebSphere Application Server installations. This session will specifically discuss how IBM Global Services together with Software Group is helping real world customers gain greater business flexibility and value from their J2EE applications, and how those customers are positioning themselves for SOA, by deploying WebSphere Extended Deployment solutions.



© Copyright IBM Corporation 2007

Produced in the United States of America

2-07

All Rights Reserved

AIX, CICS, DB2, DB2 Universal Database, i5/OS, IBM, the IBM logo, IMS, iSeries, Lotus, Lotus Notes, OMEGAMON, OS/390, Parallel Sysplex, Rational, Sametime, System i, Tivoli, WebSphere, and z/OS are trademarks of International Business Machines Corporation in the United States, other countries or both.

Java and all Java-based trademarks are trademarks of Sun Microsystems, Inc. in the United States, other countries, or both.

Microsoft, Windows, Windows NT, and the Windows logo are trademarks of Microsoft Corporation in the United States, other countries, or both.

Other company, product and service names may be trademarks or service marks of others.