

J2EE TECHNOLOGY OVERVIEW

A COMPLETE OVERVIEW OF THE JAVA 2, ENTERPRISE EDITION PLATFORM

23 AND 24 MARCH 2004 (14-21H)

BUSINESS FACULTY (ST. LENDRIKSBORRE 6, NEDER-OVER-HEEMBEEK NEAR BRUSSELS)

GOALS OF THIS SEMINAR:

During this seminar, we offer you *a complete overview of the basic architecture of J2EE* (the Java 2 Platform, Enterprise Edition), as well as *an in-depth description of all the components of J2EE*. Participants will learn the purpose and significance of J2EE, but also insight in which development skills are required, and how the development process should be organized.

This seminar starts with *a review of the J2EE architecture*, but the main part of this seminar consists of *a description of all the J2EE technologies*: Java Naming and Directory Interface (JNDI) for directory-based applications, Servlets, JavaServer Pages (JSP), Tag Libraries, Java Messaging Service (JMS) and JavaMail for messaging, RMI-IIOP for distributed applications, JavaIDL, JDBC for talking to databases, JTS/JTA for transactions, the (J2EE Connector Architecture (JCA) for connecting to other (possibly legacy) systems, Enterprise JavaBeans (EJBs) for reuse, ...

We will also discuss *a number of typical problems and typical solutions*, the so-called J2EE blueprints, best practices and design patterns.

We end this two-day seminar with a discussion of the *tools for J2EE development & deployment*, and *a brief comparison of .NET and J2EE*.

DETAILED PROGRAMME:

13.30-14h: *Registration (23/3), Coffee/Tea*

14.00h: *1: Introduction to J2EE*

- The vision, features and advantages of Java
- N-tier systems, problems, and benefits
- An overview of the technologies in J2EE

2: Typical J2EE Architectures

- Examples of real-world Java architectures
- The J2EE Application Programming Model
- Implementation strategies
- J2EE tiers and possible J2EE deployments
- Phases and roles in J2EE application dev.
- Design considerations and decisions to make

3: JNDI

- Distributed objects, naming, ... in Java apps
- How is JNDI used in real-world situations ?

4: Servlets and JSPs

- What are servlets, and what is their lifecycle ?
- What are JSPs, and how are they used ?
- How can tag libraries be used to reduce scriptlet code in JSP pages

5: JavaMail and JMS

- What is JavaMail, and how to send messages
- What is Java Messaging Service (JMS) ?
- How does a JMS application look like ?

6: RMI-IIOP and JavaIDL

- How do you implement RMI remote objects ?
- CORBA objects and the RMI-IIOP protocol

7: JDBC and JTS/JTA

- Advantages and example usage of JDBC
- The architecture of JDBC applications
- Bean- vs container-managed transactions

8: EJB: Enterprise JavaBeans

- What are Enterprise JavaBeans ?
- The EJB development roles
- Entity beans versus session beans
- Deployment descriptors
- Communication and transactions in EJB

9: JCA: J2EE Connector Arch.

- JCA: the J2EE Connector Architecture
- Connecting to legacy and other systems
- JCA: market overview

10: J2EE Design Patterns

- J2EE best practices lead to "design patterns"
- The challenges of large applications & projects
- Design patterns and the J2EE Blueprints

11: Market overview & .NET

- Overview of J2EE-based application servers
- Overview of J2EE development tools
- J2EE vs .NET: similarities and differences

21.00h: *End of this Seminar (24/3/2004)*

OUR SPEAKERS:

Bart Strubbe is a Certified Java Engineer at **JCS Int.**, with a lot of experience with J2EE.

Ronny Van de Maele is Sales Manager at **JCS**.

This seminar is organized in cooperation with the Belgian specialists in J2EE: **JCS International**, an Authorized Java Center that offers training, consultancy and development, and exclusively focuses on Java and related APIs.



SEMINAR PRICE:

The price of this seminar is **920 EUR (+ 21 % VAT)**, incl. participation in the seminar, dinner, coffee/tea, and a lot of background information on Java and J2EE-based application design, development and deployment.

DISCOUNTS:

For *simultaneous registrations (one invoice)*, the 2nd participant of the same company receives **10 %**, the 3rd **20 %** and all further participants **30 % discount**. A 20 % discount is given to participants from schools and universities.

CANCELLATION POLICY:

Cancellation is possible up to 1 week before the seminar, if received in writing. In this case, 20 % of the total amount is charged for administration. Otherwise, the full registration fee is due, *regardless of the reason of cancellation*.

Replacement is possible at no extra charge.

WHO SHOULD ATTEND ?

This seminar is particularly useful for:

- Technical Business and IT managers
- Project managers and strategic planners
- System architects and senior developers
- Software developers

>>> Submit your questions to java@itworks.be !

REGISTRATION FORM

Fax to: (09) 241.56.56 or backup fax (09) 220.34.57 - Questions ? Call (09) 241.56.13 or e-mail seminars@itworks.be

Mr. / Mrs.

Name: _____ First Name: _____

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Agrees with the seminar conditions, and registers for:

J2EE Technology Overview (23 and 24 March 2004)

Please send the invoice for 920 EUR (+ 21% VAT) to my company address.

Extra info for invoice (like order nr.): _____

Date _____ Signature _____

Your data will be recorded in the database of I.T. Works bvba, so that we can keep you informed about our activities. In accordance with the law of 8/12/1992 on the protection of privacy, you can inspect and, if necessary, correct this data.

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