

# New Information Systems architectures

Seminar of 3 days - 21h

Ref.: AEB - Price 2024: CHF2 890 (excl. taxes)

This seminar explains the concepts and standards of the new technical / functional architectures, how they have evolved and matured. It presents an overview of the 3rd revolution in information systems, based on the idea of services. Case studies based on large and significant projects, will show you how these technologies and platforms have been implemented.

## THE PROGRAMME

last updated: 01/2018

### 1) The principles of IS urbanism

- What is urbanism? Mapping the existing elements. Defining the target IS.
- Who are the players in an urbanism project? What is the time scale?
- What are the deliverables? What is the control structure? Which approach should you adopt? Analyses: maturity, integrati
- Impact analyses: the cultural transition for the company and the ISD, the learning curve for the teams, organisation in

### 2) Integration-oriented architectures: a concrete response to Urbanism

- Enterprise Application Integration: EAI. Principles. Why are integration problems more concerned with organisational and

### 3) Web services

- The Web services concept and the related standards (SOAP, WSDL, WS-\*).
- Developing and deploying Web Services.
- The position of the main players in the market.

### 4) e-Business infrastructures

- Background.
- Attempts at standardisation (BPSS, cXML, xCBL, BTP, etc.), market offers (Commerce One, Ariba, Rightworks, Biztalk).
- ebXML v RosettaNet.
- Architecture, standards, adoptions, feedback. Financial and accounting standards.
- Orchestrating services (BPML, BPEL, BPEL4WS).

### 5) Service-oriented architectures (SOA)

- What is a "service"?
- Differences between managers and brokers. Orchestrating several services. Transactional aspects.
- Security. Supervision and maintenance.
- Concrete examples of applications for distributing contracts and insurance services.
- ESB (Enterprise Service Bus) architectures: an SOA - EAI convergence?

### 6) Web Content Management (WCM), document management (GED, WDM)

- Content management issues.
- Why collaborative working?
- Static sites v dynamic sites, using XML, managing roles. Description of content management and document management tools

#### PARTICIPANTS

IT management. Operational department managers. User project leader. Technical project leader/manager. Technical architect.

#### PREREQUISITES

Knowledge of the Internet and notions of technical architectures.

#### TRAINER QUALIFICATIONS

The experts leading the training are specialists in the covered subjects. They have been approved by our instructional teams for both their professional knowledge and their teaching ability, for each course they teach. They have at least five to ten years of experience in their field and hold (or have held) decision-making positions in companies.

#### ASSESSMENT TERMS

The trainer evaluates each participant's academic progress throughout the training using multiple choice, scenarios, hands-on work and more. Participants also complete a placement test before and after the course to measure the skills they've developed.

#### TEACHING AIDS AND TECHNICAL RESOURCES

- The main teaching aids and instructional methods used in the training are audiovisual aids, documentation and course material, hands-on application exercises and corrected exercises for practical training courses, case studies and coverage of real cases for training seminars.
- At the end of each course or seminar, ORSYS provides participants with a course evaluation questionnaire that is analysed by our instructional teams.
- A check-in sheet for each half-day of attendance is provided at the end of the training, along with a course completion certificate if the trainee attended the entire session.

#### TERMS AND DEADLINES

Registration must be completed 24 hours before the start of the training.

#### ACCESSIBILITY FOR PEOPLE WITH DISABILITIES

Do you need special accessibility accommodations? Contact Mrs. Fosse, Disability Manager, at psh-accueil@ORSYS.fr to review your request and its feasibility.

- The advantages of personalisation.
- Knowledge Management.

#### 7) The enterprise portal (EIP)

- The functions that the company really needs.
- Bringing all the data sources together and distributing them via one single application, the browser. Technical problems
- Major tools: IBM WebSphere Portal, BEA Plumtree, MS Sharepoint Server ...

#### 8) Data Warehouse

- Adjusting the information system to the business. Improving the monitoring, forecasting and optimisation of the economic
- Description of the complete chain: from collecting data in the operational systems through to its presentation in decisions

#### 9) Security infrastructure

- Making information exchanges secure: authentication, authorisation, integrity, confidentiality, non-repudiation and legal

#### 10) IS Governance and supervision

- Technical monitoring. Definitions. Protocols (SNMP, JMX, WMI). APM tools (Quest PerformaSecure, CA Wily). Business Acti

## DATES

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#### REMOTE CLASS

2025 : 18 Mar, 24 Jun, 07 Oct, 09 Dec