

SOA 2.0 and ED-SOA

2 dagen hands-on training (Nederlandstalig)

► Doel & voor wie geschikt?

Learn how a SOA course can give you the often sought-after competitive edge

► Onderwerpen

SOA and EDA

- The fusion of SOA and EDA into ED-SOA
- Combining events and services
- Business rule processing
- Transforming messages
- Solicit-Response
- Different ways of thinking about problem solving
- WS-Eventing
- Potential overlap between SOA and EDA
- Standardizing event processing rules

Fundamental EDA Characteristics

- Decoupled interactions
- Publish/Subscribe messaging
- Many-to-many communications
- Event-based triggers
- Asynchronous interactions
- How does ED-SOA support faster responses?

Event-driven Architecture

- Event processors
- Using a dashboard
- Event monitoring
- Event infrastructure
- Propagation of events
- Kicking off a business process

SOA Action Framework

- Triggering actions
- Subscribing to an event
- The ESB and event propagation
- Complex event processing
- Event consumers
- Event producers
- Storing and forwarding events
- Facilitating system responsiveness

Event processing Styles

- Simple processing
- Handling real-time flow of work
- Reducing lag time and cost
- Stream processing
- Real time flow of information
- Enabling in-time decision making
- Complex processing
- Inferring event occurrence
- Event correlation
- Sophisticated event interpreters
- Responding to business anomalies

Enterprise Service Bus (ESB)

- Standard-based connectivity
- Transport services
- Message routing capabilities
- Message transformation features
- Event services
- Mediation capabilities
- Protocol mediation
- Content mediation
- Configuring a simple ESB solution
- Pervasive integration
- Reliable integration

WS-Eventing

- Delivery modes
- Subscription managers
- Notations and terminology
- Subscription messages
- Notifications
- Faults
- Security considerations
- Message security
- Access control

Complex Event Processing (CEP)

- CQL - Complex Query Language
- Event Attributes or properties
- Granularity of events
- Using timestamps

- Creation time and arrival time
- Event processing language (EPL)
- Event processing agents (EPA)
- Composite events
- Derived events
- Event source and event channel

SOA event Patterns

- Discovering event patterns
- Commands
- Queries
- Event pattern monitoring
- Monitoring for control of process execution
- Event cascade
- When to use event patterns
- Event sourcing
- Structuring the event handler logic
- Reversing events

SOA events and the SLA

- Importance of a Service level agreement
- Keeping services within the agreement
- Instances violating the SLA
- Priority for executing risk assessment steps
- Building autonomous processes
- Monitoring and event pattern triggering
- Dependence between events

Software Platform for ED-SOA

- Software Tools for ED-SOA
- Event-optimized runtimes
- Supporting bulk application of rules
- Dynamic data-driven event definition
- Agents and streams
- Guaranteed pause times
- Sensors and event-processing agents
- Responders

Conclusions

- Building of processes facilitated by ED-SOA
- ED-SOA constructed using BPM
- CEP principles as component of ED-SOA
- The increasing quest for control of BP
- Real time autonomous operation
- Gathering business intelligence from events
- The way of the future

► Instapniveau

Basic Windows knowledge.

► Opzet

De cursus wordt gegeven aan de hand van een levendige presentatie. U ontvangt een afgedrukt exemplaar van deze presentatie.

Deze cursus duurt twee dagen, van 9.30 - ca. 16.30 uur. Tussen 12.00 - 12.45 uur is er een lunch in buffetvorm. Koffie, thee en frisdrank zijn de gehele dag beschikbaar.

► Kosten & Iestijden

De cursus kost EUR 995,00 per persoon, excl. BTW. Inclusief cursusmateriaal, deelnamecertificaat, lunches en consumpties.