



## SOA initiative

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## *ESBi* in a nutshell

- A collaborative program undertaken by ObjectWeb members to promote a set of technologies and bring them to the mainstream
  - ❖ Targeted sector → **ESB**, as a "neutral, standards-based integration solution that is flexible, robust, scalable, and at the same time, easy to implement and maintain".
  - ❖ Market-driven → "more than one-half of large enterprises will use ESBs by end of 2006" (source : Gartner)
- Opportunity assessment phase in 2004
  - ❖ Public kick-off in PARIS, October 2004
- A live experiment and proof of concept for a new initiative process

- Development of the initiative concept
  - ❖ Fostering the development of a business ecosystem
  - ❖ Market-driven
  - ❖ Governance rules consistent with the business models
  - ❖ Delivers more than code, but qualification and best practices too
  - ❖ Is not “The ObjectWeb solution” in the targeted sector, but a “Platform”
    - ✓ Existing and new ObjectWeb projects, shared vision by the initiative community, best practices and usage views, resources and roadmap, ...



## ESBi in progress and next steps

- Reinforcing a common architectural view
  - ❖ Sharing works done around a component-based model (JOnES, ScorWare & Eclipse STP, INRIA & ObjectWeb contributions)
- Reinforcing usage
  - ❖ Contributing to usage architecture and demonstrators (S4All-SDK, JOnES & ScorWare INRIA ObjectWeb contribution)
  - ❖ Working on packaging and integration to bring the ESBi's components to the mainstream and make them easier to use
  - ❖ Cross-initiative collaborative work (RFIDi, demonstrating ESB usage in a RFID oriented middleware)
- Reinforcing the coherence with the market
  - ❖ Cross-collaboration with the Integration Consortium
  - ❖ Participation to the WWRF (Wireless World Research Forum)
- Sharing a long-term view
  - ❖ Participating to NESSI and sharing the SRA (Strategic Research Agenda) main orientations
- Targeting a mature proposal (end 2006)
  - ❖ Transfer to ObjectWeb V2
  - ❖ A starter for the next SOA initiative



## *Some lessons learned from ESBi ...*

- An initiative is an iterative process
  - ❖ From incubation to maturity
  - ❖ Process driven governance
  - ❖ Under continuous improvement
- Market-driven and user-oriented ...
  - ❖ But a first step is to create a community around technical views
  - ❖ A shared strategy between initiative partners, clear commitments and a consistent timeline are required
  - ❖ Awareness of the real-world usage domains and market standards
  - ❖ Sharing technical expertise and best practices
  - ❖ Reusing components and technologies

# Motivation



## ➤ Global objectives

- ❖ To leverage and extend the ESB initiative
- ❖ To foster the growth of the ObjectWeb ecosystem in the ESB and SOA activities

## ➤ Key aspects

- ❖ Gather user requirements and experience by creating a “SOA initiative user group”
- ❖ Create an industrial class ObjectWeb SOA platform to create, configure, deploy, monitor and orchestrate services
- ❖ Produce SOA use cases, demonstrators, tutorials, real user requirements

## Opportunity



- Similar platforms already exist in the open source landscape
  - ❖ Jboss SEAM, based on Jboss projects
  - ❖ LogicBlaze Fuse, based on Apache projects
- Some ObjectWeb members work separately to create such a platform
- The opportunity is to
  - ❖ Join strengths to create a base platform
  - ❖ Each member keep the opportunity to extend the platform to fit its business needs

# Participants



- Leader : EBM WebSourcing leader of Petals(JBI)
- Already contacted participants
  - ❖ BULL : Leader of JOnAS and Orchestra
  - ❖ OrientWare : Leader of Xlinker and other SOA related projects
  - ❖ INRIA : Leader of Fractal, and other architecture projects
- Prospective participants
  - ❖ Scalagent : Leader of JORAM
  - ❖ IONA : Leader of Celtix
  - ❖ Engineering and Exo Platform to provide the monitoring and management infrastructure
  - ❖ Mandriva, RedHat as distribution providers
- Prospective user group participant
  - ❖ Amadeus, Thales, Air France

## Initial project set



- Petals : JBI based ESB
- Xlinker : Web Service stack
- Orchestra and OncePI : BPEL engines
- Xsquare : transformation engines
- JORAM : JMS implementation
- JonAS : for service implementation
  
- Base ObjectWeb components : Fractal, GOTM, Dream, Oscar
- Links with Spago BI and Exo for monitoring and management infrastructure
- Links with STP Eclipse project for service creation, test and deployment

## Technical working areas



- Creation of a simultaneous release process for all initiative projects (a la Eclipse Callisto)
- Adoption of Fractal and OSGI frameworks and models to foster component re usability
- Creation of a catalog of ObjectWeb SOA components
- Creation of an all in one installer which downloads the necessary project from a central repository

## Non-Technical working areas



- A strong objective to deliver
  - ❖ tutorials,
  - ❖ demonstrators,
  - ❖ real user requirements,
  - ❖ and real use cases
  
- Objective is to be as easy as possible for integrators and end users
  - ❖ LGPL is the preferred license in this initiative
  - ❖ New projects joining the initiative must follow a compatible license to be packaged in the SOA platform

## Timeline and Milestones



- Work starts by the end of 2006
- First integrated platform planned for Q1 2007
  - ❖ Petals + Orchestra + Jonas + Joram
- A SOA platform release each six months
- A non technical deliverable (demo, tutorial, use case, ...) at least each six weeks to maintain the initiative heartbeat