

On-line booking system with Spago

TIRRENIA NAVIGAZIONE DEVELOPS AND DEPLOYS ITS BOOKING SYSTEMS WITH THE SPAGO FRAMEWORK

Key Words :

- J2EE
- Web Services
- Cluster environment
- Public transports



Organization

Tirrenia
Navigazione

Market

Public transports

Status

Public company

Mission

To link the principal
Mediterranean ports

Objective

To provide the best
services to its
customers.

Country

Italy

OW2 Project



'' bound to please: the Java Enterprise Framework ''

The Spago framework supports the development of the Passengers Booking and Goods Booking application for Tirrenia Navigazione S.p.A..

Tirrenia Navigazione S.p.A.

Tirrenia Navigazione is one of the major European ship owning companies. With its fleet of near 90 ships, each year the group makes near 100.000 trips, covers 3 million miles, transports 2 million cars and hosts 12 millions passengers.

The Need for the on-line booking system

To realize a web based managerial and transactional application in order to replace the existing booking procedures based on CICS platform.

The system has been designed and conceived in order to cover the requirements of all companies belonging to Tirrenia Group, to improve their workgroup activities and to facilitate business strategies within them.

The guidelines for the definition of the architecture have been: reliability, robustness, high service availability and good response times.

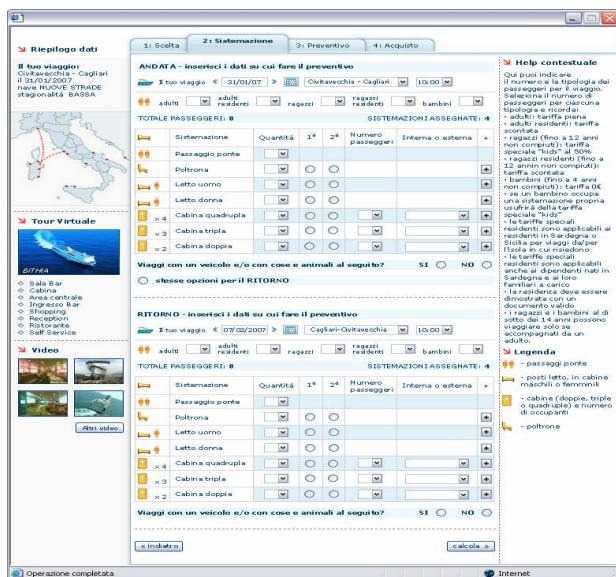
The Architecture of the on-line booking system

The new Tirrenia booking system is compliant with the “three tier” architecture model; its services can be accessed by:

- Tirrenia group employees
- Travel agencies connected through Internet and GDS
- external portals and applications
- private customers

by means of the following protocols:

- http and https on Intranet and Internet
- web services SOAP protocol for GDS and portals.



The booking system for Tirrenia Navigazione includes different key functional areas:

- Passengers Booking system available at ticket stores or at travel agencies
- Goods Booking system
- Several commercial applications at Tirrenia's partners sites interface the booking system by means of Spago Web Services
- Application log and audit
- Printers pool management for tickets and reports printing

The Results

The use of the Spago framework provided the following advantages:

- The same component can be written once and exposed by different interfaces and protocols (HTTP, EJB, SOAP).
- All components can be easily distributed in a clustered environment.
- Security mechanisms are available in the Spago framework

Professional Support



- Engineering Ingegneria Informatica is the core developer of the Spago framework and the system integrator of the solution for Tirrenia Navigazione S.p.A..
- Tirrenia Navigazione S.p.A. provides the technical environment and the domain competence.

OW2

OW2 Consortium
21 rue de Madrid
75 008 Paris, FRANCE
www.ow2.org
contact@ow2.org

About OW2

Founded in January 2007 as a result of the merger of ObjectWeb and OrientWare communities, OW2 is an independent industry consortium dedicated to developing open source code middleware and to fostering a vibrant community and business ecosystem. Building on the legacy of ObjectWeb and OrientWare, OW2 federates more than one hundred organizations and 6000 developers in Europe, Asia and the Americas. OW2 hosts over one hundred technology Projects, including Lomboz, Sync4j, eXo Platform, XWiki, SpagoBI and JOnAS. Several of the OW2 projects are combined into market-driven Initiatives, such as the ESB/SOA Initiative and the Business Intelligence Initiative, which facilitate their implementation by systems integrators, OEMs and end-users. A typical global open-source organization, OW2 aims to bring together grassroots communities across all continents through Local Chapters. [More information about OW2 is available at http://www.ow2.org.](http://www.ow2.org)

