



Success story

The open source ESB solution for Services Oriented Architectures

Middle-office infrastructure

RITA inter-ministry exchange platform with Petals ESB



Name

DGME (General directorate for the state modernization)

Market

Public entity in charge of inter-ministry project for modernization

Sector

Public Administration (France)

Use case

Exchange platform

Dimension

130 Agents who manage modernization projects
Open online services and portals, to simplify administrative processes
2000 employees that are partners or actors of public administration modernization

Implementation

December 2008

Website/project

Mon.ServicePublic.fr
Acte-etat-civil.fr
Changement-adresse.gouv.fr
Modernisation.gouv.fr
Mesdemarchesenligne.fr

IT Environment

Unix mainframes
Mainly Cobol and Oracle legacy

Customer

General directorate for the state modernization (DGME) – France

The French DGME fosters the development of IT systems to modernize French public services in order to better fit public requirements. The DGME promotes and coordinates inter ministry modernization initiatives, and then evaluate them.

In particular, the DGME fosters digitalisation of public service processes and inter ministry interoperability. The DGME also operates inter-connexion and exchange infrastructures in the field of directories, domain name management, IT application distant access and digital resources registries.

Project

Create an agile exchange platform

The DGME Middle-Office project RITA provides shared components and services to all the public sector actors.

Project RITA provides not only inter ministry directories and registries but also an infrastructure to operate data exchanges between the public and the ministries. The aim of this infrastructure is to ease technical interoperability between the various actors, and in particular to promote the use of Web Services between public actors. Next step is to build a SOA governance registry and repository shared between the public agencies.

With the first step of the project RITA, the DGME provides an exchange platform to automatically exchange and distribute data between the ministries and expose these data in forms freely accessible on the Web. Petals provides the backbone for this exchange system. Connected to a UDDI registry operated by DGME, Petals authenticates users and partners and routes the data to the right destination, by using the most adequate protocol (FTP, SMTP, ...). Adding PETALS ensures a new dimension of flexibility to the whole infrastructure, as changes in server load's capacity, protocols or file formats will require only lightweight adaptations at connectors's levels.

In the medium term, Petals eases the adoption of Web Services based on the PRESTO protocol standardized by the DGME.

« The DGME selected Petals ESB because it enables a short and easy iteration to put first use cases in production. Additionally, Petals has the potential to expose the future services and resources that DGME plans to disclose to the public. Finally, Petals provides these features in a standard and open way. »
Benoît Tourmel, Senior Manager – Logica Management Consulting

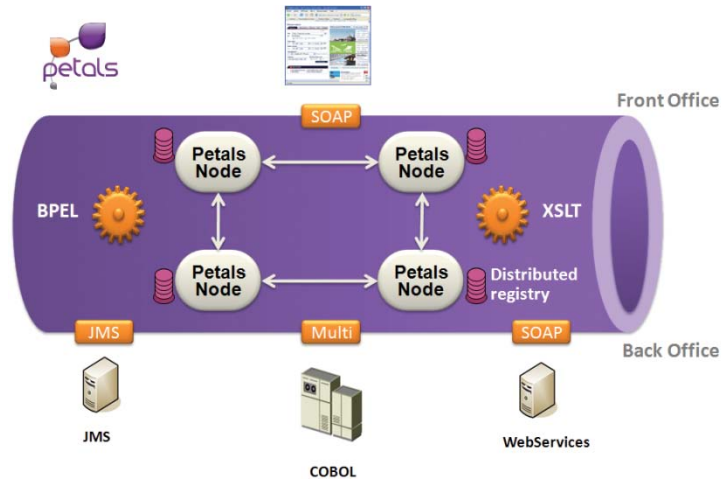
With this first project, we demonstrated Petals fits the functional and technical requirements of DGME. The project was put in production in a very short time frame. After this first success, new data flows are starting to be deployed and the first web services are being made available in the Web Site "mon.service-public.fr".

Solution

Petals, the Service Oriented Infrastructure

Petals provides a leading open source ESB to support your Service Oriented Infrastructure. It is a lightweight, highly distributed and scalable platform for both A2A and B2B integration. Thanks to its specific distributed architecture and the tools provided, Petals offers a very competitive integration solution with support for a large number of protocols, formats and integration features.

Petals relies on JBI and Web Services standards to ease the development, assembly, and deployment of integration solutions. Petals leverages Web Service best practices like document oriented exchange or WSDL interface description, and proposes a plug-in environment to assemble integration components.



Petals differentiates from other ESB especially thanks to its original distributed architecture (Petals can be easily deployed on several hundreds of server nodes) and also because it fully complies with JBI specification and its underlying standards.

Benefits

A fully open and standard distributed ESB

- As a professional solution Petals provides many plug-ins out-of-the-box, allowing fast and easy interconnections of the internal IS applications, resulting in a robust scalable distributed environment.
- Petals's full respect of JBI specifications ensures great conformity with all standards, implying great interoperability and easier development of later integration pieces.
- Petals's original and flexible architecture opens the way for fast, simple and lightweight deployment of the services access points, in order to create a reliable event driven architecture.
- As an infrastructure solution, Petals offers all features needed to create a full-fledged Enterprise Service Bus : messages's translation & enrichment, service orchestrations, communications with all standard protocols, embedding of standard connectors and dedicated / business-oriented engines.
- Thanks to ACOSS partnership, EBM Websourcing now provides a complete Eclipse based development tool. It allows developers and administrators to easily configure and automatically deploy Petals components and configurations.

« For A2A or B2B integration issues, we think that even if these two types of integrations focus on different stakes (among security, interoperability), the common point is "distributed integration". We believe it is the best way to create more scalable and robust solutions. »

Gaël Blondelle, EBM WebSourcing CTO



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