SmartPOS

Pedro Rozo
CEO - Canadá & Américas
MBA / PMP / Senior Global IT Consultant
Colombia / Canadá / United Kingdom

SmartJSP
Large-scale open source software integration

IT Consulting
100%
Open Source

Pedro Rozo

- Systems Engineer - Universidad Distrital F.J.C.
- MBA – Company Direction Universidad San Pablo – España
- Project Management Professional – PMP - PMI
- Oracle Certified Enterprise Architect for Java (SCEA)
- **CEO - SmartJSP Solutions for Canada & Americas**
- Global Senior Consultant for Enterprise Integration, SOA,
- BPM, ERP, Middleware and Open Source

- +18 years of global IT experience delivering solutions for many industries such as: Telecommunications, Insurance, Healthcare, Agriculture and Finance, 100% Bilingual (Spanish & English) with a ideal balance of executive and technical strengths. Canadian & Colombian citizen.
- University Teacher for Post-graduate IT training and conference speaker for Universidad Distrital at Bogotá, and Universidad Tecnológica de Panama, also an IT trainer for SOA, middleware, architecture, integration and enterprise open source solutions for large organizations.

Our Company

- We create real agile & specialized IT solutions (Cloud, Onsite & Mobile) **integrating enterprise open source products** for distributed environments applying best practices and Global open standards.

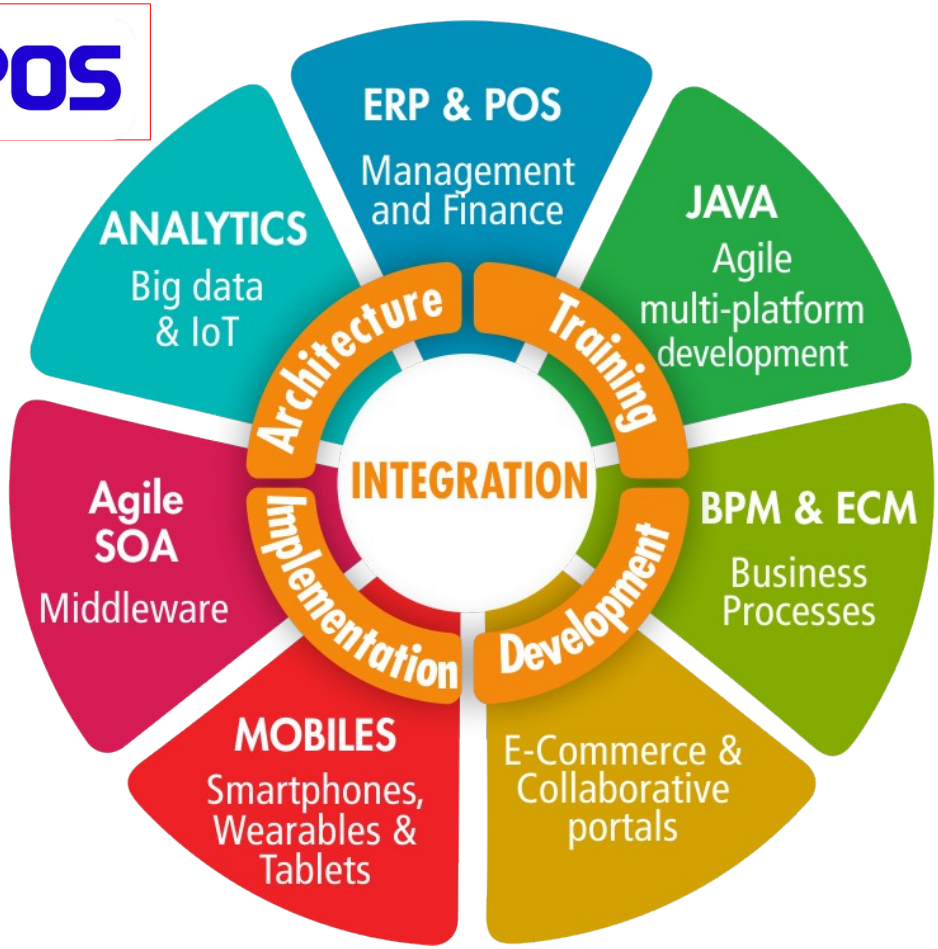
- Founded in Vancouver, Canada in 2004 and established its engineering base in Bogotá D.C,Colombia since 2009, we have executed integration projects successfully for U.K., Canada, U.S.A, Ivory Coast, Spain, Panamá, Ecuador and Colombia.

- We perform advanced IT integration projects using service oriented architecture (SOA), OSGi and Java enterprise technology.

IT Specialized Solutions

- Retail — SmartPOS
- Commercial
- Supply chain & transportation
- Manufacturing
- Livestock farms & Agricultural
- Healthcare
- Online Government

Global & Standard “Building Blocks”:Horizontal Solutions



Vertical IT Solutions (Powered by Idempiere ERP)

Commercial, manufacturing & Retail: **SmartERP** & **SmartPOS**: Integrated ERP + POS : optimized for retail industries such as: restaurants and Pharmacies

Transportation: **SmartVehiculos** + SmartERP: Integrated solutions for Vehicle maintenance, workshops, service pumps with reports and alarms.

Livestock farms : **SmartGanadero:+** SmartERP + Integrated solutions for Livestock management including: health registry, meat and milk production, it includes reports, alarms, statistics and prospective tools

Agricultural: **SmartAgro+**: SmartERP. It manages Farm production from the first stage to the final delivery of the products, it includes labour, costs, etc.

Healthcare: **SmartSalud**: SmartERP : Integrated solution for health care centers (small – middle size) support health care registry, calendars, automated commission rules and all the basic integrations with ERP

SmartPOS

AGENDA

1) Flexible topologies
2) Product Evolution 1.0 (C/S) → 3.2 (Online-OSGi)
3) 4 –> 5.1 → 6 Highlights (Functional)
4) 6.1(To Be released)–Reactive asynchronous integration
5) Add-ons: SmartLoyalty

Topologies: Model A. L.A.N

Browsers

Tablets

Local (Store)

SmartPOS(ERP)
+ SmartReplicator
JavaEE/OSGi/
Reactive REST

Selective
Replication
JSON Objects

Mobiles
SmartOrder App
NativeScript/
SQLite DB /
SmarReplicator

Printer on Server
or client Side

Many Browser/Tablets + Local ERP
Operation (LAN) / (Optional Remote Sync)

SmartPOS Topologies Model B. Simplified Asynchronous Architecture

Browsers

Tablets

Remote (Store)

SmartPOS(ERP)
+ SmartReplicator
JavaEE/OSGi/
Reactive REST

Selective Replication JSON Objects

Central Location

SmartERP
+ SmartReplicator
JavaEE/OSGi/
Reactive REST

Reactive Sync JSON Objects

Remote (Store)

SmartPOS(ERP)
+ SmartReplicator
JavaEE/OSGi/
Reactive REST

Selective Replication JSON Objects

SmartOrder APP
Native Script+
SQLite DB+
SmartReplicator Lite

Mobile Client
REST Web Services

N-POS(ERP) + 1 Central ERP + Local Mobiles + DiaspoCare Devices

SmartPOS Topologies Model C.
Large Scale Asynchronous Architecture

Browsers

Tablets

Remote (Store)

SmartPOS(ERP)
+ SmartReplicator
+ SmartLoyalty
JavaEE/OSGi/
Reactive REST

Selective Replication JSON Objects

Central Location

SmartERP
+ SmartReplicator
+ SmartLoyalty
JavaEE/OSGi/
Reactive REST

WSO2 Integrator
API/Security/
Microservices +
ESB Server

Selective Replication JSON Objects

Reactive Sync JSON Objects

Remote (Store)

SmartPOS(ERP)
+ SmartReplicator
+ SmartLoyalty
JavaEE/OSGi/
Reactive REST

SmartOrder APP
Native Script+
SQLite DB+
SmartReplicator Lite

Mobile Client
REST Web Services

N-POS(ERP) + 1 Central ERP + Local Mobiles + WS02 Integration + DiaspoCare Devices

SmartPOS Topologies Model D. Data Analytics

Browsers

Tablets

Remote (Store)

SmartPOS(ERP)
+ SmartReplicator
+ SmartLoyalty
JavaEE/OSGi/
Reactive REST

Central Location

SmartERP
+ SmartReplicator
+ SmartLoyalty
JavaEE/OSGi/
Reactive REST

Selective Replication JSON Objects

WSO2

Integrator
API/Security/
Microservices +
ESB Server

SmartOrder APP
Native Script+
SQLite DB+
SmartReplicator Lite

WSO2

Selective JSON or DB Replication

DashBoard
& Analytics Server

Reactive Sync JSON Objects

Mobile Client
REST Web Services

N-POS(ERP) + 1 Central ERP + Local Mobiles + WS02 Integration + DiaspoCare Devices + Data Analytics Server + Dashboards

1. Product Evolution

SmartERP (Adempiere/Idempiere Distro of SmartJSP)

A bit of History about previous POS efforts

0. Posterita Web POS.
1. Basic (old) Open Bravo – Web Services (OpenBravo ERP
2.. Red 1 – Basic OBPOS - batch sync – basic entities & transactions
3. **SmartPOS 1.x (2011-2012)** – **C/S -Enhanced OBPOS+ Advanced Asyncronous Integration with SmartERP(Adempiere) using ActiveMQ**
   - Master (ERP) – Slave(n POS-per org) – ERP stock management
   - Fail over-store &forward and secure scenarios
   - Multiple units and prices per product
   - Real time synchronization for Returns, payments, stock management, taxes, categories, products, customers, discount (plans) model for insurance, clubs and membership orgs, location (country, regions, cities)
   - > 200 fixes over the original OBPOS
   - >50 Popular add-on features (multiple printers, tips, discounts)
   - Stock, location and unit visualization during sales
   - Optimized for english, french & spanish

1. Product Evolution

4. **SmartPOS 2.0** (Enhanced OBPOS + **SmartERP(Idempiere 2.0)** Plug-in + **RabbitMQ**+Server &client Installers for linux, windows, virtual appliance. 2013

5. **SmartPOS 3.1** OSGi-Web (**newer Idempiere 2.1 -Plugin**) Server side (web), installers for linux, windows, database seed , extended documentation, **First release for developers 3.1** (first set of packouts, additional docs) 2014 – 2015

6. **SmartPOS 3.2** offers a lot of QA enhancements, **support to light manufactured (1 level)**, promotions, flexible discounts, advanced warehouse, organization structure, easier UI configuration per warehouse, organization and system levels. Integration with SmartLoyalty → 2015.

7. **SmartPOS 4** Support for advanced **asynchronous scenarios using distributed selective replication** with NOSQL DB (Cassandra) and **data Analytics (BigData)** capabilities using WS02 business activity monitor.

.

8. **SmartPOS 5.1** Web (**newer Idempiere 5.1 -Plugin**) Server side (web), installers for linux, windows, database seed , extended documentation,

Support to light manufactured (1 level), promotions, flexible discounts, advanced warehouse, organization structure, easier UI configuration per warehouse, organization and system levels.

Integration with SmartLoyalty

9. SmartPOS 6 Web (**newer Idempiere 6.2**) Server side (web), installers for linux, windows, database seed , and SQL scripts for vanilla idempiere 6.2 & extended documentation. See what's new doc ..

6. AddOns SmartLoyalty

Points management per product

Payment with points

Purchase / redemption of points during POS transactions

SmartPOS

Demo / Overview

SmartJSP

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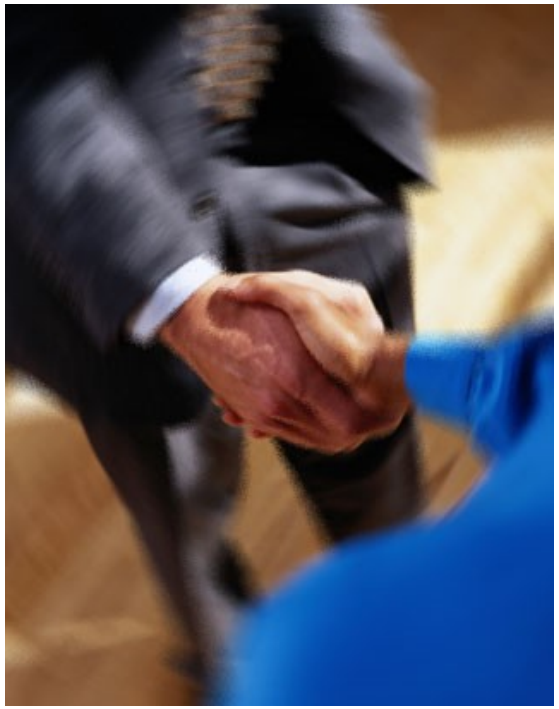
Your choice

- Strategic IT Partner
- Expert IT Service provider



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More information

www.smartjsp.com

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