



Software Performance Systems, Inc.

## CAPABILITY

# Web Services/ Service Oriented Architecture

## Overview

Web Services and Service Oriented Architecture (SOA) are being heralded as the harbingers of interoperability across, and within, organizational boundaries. Web Services comply with World Wide Web Consortium standards, including Web Services Definition Language (WSDL) and Simple Object Access Protocol (SOAP). These standards enable interoperability by establishing open XML-based communications protocols and service definitions.

SOA practices provide a framework for organizing and orchestrating systems, and indeed entire organizations, to rapidly achieve interoperability and improved agility by leveraging the W3C web services standards.

Web Services form the foundation of an adaptive business process tuned to accommodate changing requirements. Web services enable software "black boxes" to be easily updated and replaced without violating interface "contracts" with the previous service implementation and existing requesters. Web Services establishes a conduit for allowing loosely coupled and disparate systems to communicate and transact. All of this allows IT departments to meet new requirements without infrastructure changes.

## Making IT Work. Together.

SPS employs Service Oriented Architectures and specifically Web Services as a means to encapsulate and integrate both legacy and

newly developed applications. Leveraging the open W3C open standards supporting web services ensures interoperability across technical platforms and organizational boundaries. SPS clients adopting web services can adopt a self-service model and strengthen their relationships to their external customers and their business and distribution partners through tighter integration allowing them to provide services more efficiently.

## Featured Solutions

### USPTO - Revenue and Accounting Management (RAM) System

The RAM System is a mission-critical, enterprise financial management system that provides subsidiary ledger accounting for all revenue collection and deposit account operations for patent and trademark fee processing. The RAM system supports more than 800 USPTO Campus Users for fee collection for Patent and Trademark goods and services and a multitude of the general public for online fee collection and account maintenance. The system processes in excess of 15,000 transactions daily, and revenue in excess of \$1B per year.

Using web services, SPS extended the RAM system to the Internet to provide secure, online fee payment, and account maintenance to the general public. RAM was one of the first Commerce systems to offer payment of goods and services online. Through 27 interfaces, RAM interacts with other USPTO Automated Information Systems, ancillary fee collection services, and Patent and Trademark organizations of other nations. The RAM interface architecture and design facilitates cross servicing of multiple users to establish interfaces that reduce system functional



## CLIENT BENEFITS

- Built with open and proven standards and technologies
- The ability to provide new functionality for legacy systems
- Allows application to application data sharing
- The ability to work in a heterogeneous computing environment

redundancy. Web services validate transaction data, enforce all workflow and document management in the full life-cycle business rules, and allow customers to use different forms of payment including credit card, electronic funds transfer, and deposit account.

### **NPFC - Claims Processing System (CPS)**

The CPS was developed for the National Pollution Funds Center (NPFC), a subsidiary of the U.S. Coast Guard (USCG) that has fiduciary responsibility for the Oil Spill Liability Trust Fund (OSLTF) and the portion of the Superfund used by the USCG to respond to hazardous material releases in U.S. Coastal Zones. The CPS provides integrated



***“Web services do not solely add benefits to individual enterprises; they also help to speed partnerships through quicker integration across businesses. This is a direct result of the abstract way a Web service describes itself, as it is almost completely agnostic of both medium and platform. So it is no longer a requirement for companies that wish to employ business to business (B2B) services to agree on a common language, infrastructure, or tool anymore. In this way, it is clear that Web services have been a primary player in a large paradigm shift, moving the emphasis from a technology-centric world to one that can focus purely on the business problem at hand.”***

—*WebSphere Journal*, 12/1/2004  
Marques, Joseph R.

adjudication of claims. Web Services allow users to create any new claims, as well as to monitor and process any existing claims.

### **Summary**

SPS has a proven record of accomplishment for building and deploying Web Services to a variety of customers, both federal and commercial. SPS Web Services allow our customers to provide new services and meet changing customer demands while still using their existing legacy systems. In addition, as requirements change, SPS is able to easily modify already deployed Web Services to meet these new requirements. Imagine what we can do working together! Let us put our expertise and experience to work for you.

## **ABOUT SPS**

Software Performance Systems, Inc. (SPS), a small business based in Northern Virginia, is a privately held information technology services provider. Established in 1995, SPS specializes in the design and integration of large web-based solutions for Federal, State, and Local Governments and commercial clients worldwide. SPS has been honored with many national awards, including: #10 ranking in the Computerworld Top 100 Best Places to Work in IT, Deloitte's Virginia Technology Fast 50 and North America Technology Fast 500, and as a SBA Exporter of the Year. More importantly, SPS solutions helped our clients win prestigious awards, including the Grace Hopper Federal Government Technology Leadership Award, the E-Gov Pioneer Award, the Excellence.gov Grand Prize Award, and the Government IT Agency Award for Excellence in Government. **SPS...proven over time.**

## **CONTACT INFORMATION**



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