



Software Performance Systems, Inc.

## CAPABILITY

# .NET

### Overview

Microsoft .NET is a set of software technologies that connects information, people, systems, and devices.

.NET enables both new and existing applications to connect with software and services across platforms, applications, and programming languages. Because .NET is integrated across the Microsoft platform, it provides developers with the ability to quickly build, deploy, manage, and use connected, secure solutions with XML Web services. These solutions enable faster, more agile business integration, and the promise of information anytime, anywhere, on any device.

Microsoft Visual Studio® .NET and the .NET Framework empower developers to quickly and easily create cutting-edge Web services and applications. Seamless deployment, as well as the ability to use existing Web services, presents substantial savings opportunities for the corporate IT department. The ease of deployment within the .NET framework results in virtually no downtime for system users.

### Making IT Work. Together.

SPS offers full life-cycle development of federal government solutions and commercial products using Microsoft Visual Studio.NET, Visual Basic.NET, and ASP.NET. SPS-built solutions use a component-based methodology supported by .NET development tools

and technologies. Due to the ease of reuse within .NET and the application of Microsoft Patterns and Practices, these solutions are highly maintainable, enabling SPS to bring new features to market quickly.

### Featured Solutions

#### Texas Commission on Environmental Quality (TCEQ) – Pocket PC

TCEQ inspectors needed light, yet functionally rich, handheld devices to help ensure that site inspections addressed Federal and State statutory requirements, scientific analysis, and TCEQ administrative and reporting needs. TCEQ desired to use devices already owned to the maximum extent. Devices were to be used by multiple inspectors, and each inspector required functionality specific to the inspector’s environmental media specialty.

SPS used .NET to create a Pocket PC 2003 application that will interface with Web services to perform environmental inspections on-site. SPS selected the Microsoft.NET compact framework because it offers a collection of reusable classes that enable developers to quickly and easily develop applications for mobile devices.

#### Commercial Products

Golf course and resort management companies required automated support for membership, tee time reservations, inventory management, and point of sales. IT resources, forms, and functions differ for each company, although ease of use, rapid response, and low price are common requirements for all.

For these clients, SPS used .NET XML Web Services to connect heterogeneous golf reservation systems into one central web site for golf tee time reservations. All communica-



### CLIENT BENEFITS:

- Simplified development
- Faster time to market
- Interoperability across platforms and languages
- Reuse through implementation inheritance, components, and web services

In addition, SPS has applied industry standard best practices to develop a reusable asset library, which includes infrastructure components for exception handling, data access, authentication, and authorization; as well as business components for interested party/address, reservations, and membership. SPS uses these components to “jump-start” projects.

SPS solutions developed in .NET enable faster, more agile business integration, and the promise of information anytime, anywhere, on any device.

tions are performed with Web Services using the Open Travel Alliance (OTA) XML schema and a service interface implementation for a Table Data Gateway pattern.

### **Legacy Digital interNet Applications (DNA)**

Many organizations developed applications using the Microsoft DNA architecture. Because Microsoft replaced DNA with the .NET architecture, these organizations would like to migrate from DNA to .NET.

SPS applied .NET Web Services to wrap Component Object Model (COM) business components, so the business logic can be called from a .NET presentation layer. This approach preserved the business investment in the business logic layer of the application.

***“The data evolution has completely changed how businesses conduct transactions on the web. The business environment has evolved rapidly from presenting static data to consumers and businesses alike, to a new world, something we can only describe as the era of application integration and data evolution. Interoperability, today’s buzz word, is meaningful because it describes a process in which legacy systems are being integrated with new, interactive business software solutions.”***

—WebSphere Journal, 5/1/2004; Peltzer, Dwight



### **Summary**

In our experience with .NET, SPS has accrued a library of reusable assets providing a jump-start for new projects. SPS’s expertise with the .NET development tools enables us to create high-quality products and solutions for our customers.

SPS has been a Microsoft partner since 1998. SPS .NET developers and architects are active members of the Microsoft developer community. Through their participation in conferences, pursuit of the latest certifications, and leadership in local technology forums, SPS technical staff acquire and refine the knowledge to deliver state-of-the-art .Net solutions. Imagine what we could 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 full-service information technology services provider. Established in 1995, SPS specializes in the design and integration of sophisticated web-based enterprise solutions for both the US Government and worldwide commercial clients. SPS has been honored with many national awards, to name a few: #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, Excellence.gov Grand Prize Winner, E-Gov Pioneer Award, and SBA — Exporter of the Year. **SPS...proven over time.**