

Web Services for System i

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Agenda

- Introducing Web Services
- Creating a Web Service with WDSC
- Demonstration
- Practical Examples
- Summary

About the Speaker

- Dan Shinedling, Jr., President of KS2 Technologies, Inc., 11 years
- IBM Certified Expert – System i
- KS2 is a Premier IBM Business Partner, focus on:
 - System i sales installation and support
 - System i Integration and Conversions
 - Oracle Applications (JDE, E1, World)
 - Solutions for Homebuilding Industry
- My personal focus - Getting the most out of the System i, exploiting new technology and enhancements for System i:
 - Nineties – PC Support, CA Windows, TCP/IP, TN5250, Automated FTP's, RPGLE
 - 2000's – E RPG, eXlerators™, WebSphere, WDSC, Web Services, Java
- Went live on first System i Web Service in May 2006.
- Contact – danjr@ks2inc.com, 817-416-5505 x 205

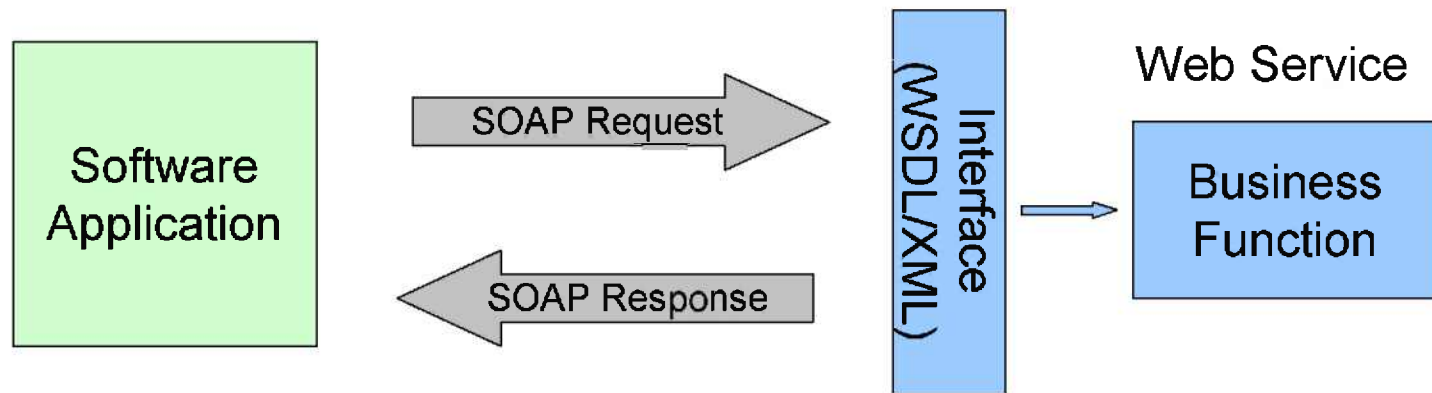
Introducing Web Services

- Web services are self contained applications with a well defined, published, and platform independent interface.
- The language of the Web Service is XML.
- Web services use a standard protocol to describe operations that can be performed or data that can be exchanged

Terms

- XML – Extensible Markup Language. Generic language used to describe any kind of content in a structured way, separated from its presentation to a specific device
- SOAP – Simple Object Access Protocol. Platform neutral protocol that allows a client to call a remote service. Message format is XML.
- WSDL – Web Services Description Language, also in XML. Describes the Web Service:
 - The operations that a Web Service performs
 - The parameters and data types for these operations
 - Service access info: location (IP address, port), protocol (HTTP, SMTP...)
- PCML – Program Call Markup Language. Used by iSeries Java toolbox to generate program calls to native RPG program.

Schematic



Advantages

- Native System i programs are instantly available to non-native applications
- Web Services provide message level or transaction level feedback than can be used by the calling application
- XSLT, Extensible Stylesheet Language Transformations, can be used to “translate” messages between different services to make them compatible, without changing code.

Today's Demonstration

- Use WDSC Wizard to create a Web Service from an existing RPG program
- Use the wizard to create a test client to test the Web Service
- Deploy the Web Service to a WebSphere Application Server running on System i
- Practical Examples

