

An E-speak Web Services Platform Tutorial (T408)

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Abstract

The pace of business today is faster than ever. Companies must be able to rapidly respond to changing market conditions. Key to success is a well-integrated value chain. A highly functional connection between a company's suppliers, partners and customers enables faster time to market for value-added services, reduced costs to acquire customers and aggregate partners, and the ability to quickly adapt to evolving business models. Moving forward, the key to successful business integration is a flexible, standards-based web services solution.

Web services are a natural response to solving this problem. The core conceptual tenants of web services are:

- Integration between software assets should be loosely coupled to allow maximum flexibility for your business
- Service interfaces should be published and programmatically discoverable by your partners
- Program to program messaging must be compliant with open internet standards
- Services can be composed from other services

The core building block of web services is Extensible Markup Language (XML), which is quickly becoming the "lingua franca" of inter-operability between businesses (within and between firewalls). XML is a text-based way for describing data and as such is platform independent. In addition, emerging standards such as Simple Object Access Protocol (SOAP), Web Services Definition Language (WSDL) and Universal Description and Integration (UDDI) are key enabling technologies for web services.

HP E-speak began as pioneering work in web services, enabling customers to solve complex issues in the area of B2B collaboration. Key E-speak functionality allowed discovery and interaction between partners. The Internet computing industry has adopted these concepts and is moving forward through efforts such as SOAP, UDDI, and WSDL. With the convergence of industry support around these emerging standards, HP is aggressively working to integrate these standards into its E-speak Web Services Platform, and to actively contribute to these and other emerging standards in the web services arena.

Using sample Java and XML code as well as real-life examples, this tutorial session will explore the fundamentals of the HP E-speak Web Services Platform, how it works, and how web services business models can be created and deployed using capabilities provided by SOAP, UDDI and WSDL.

This tutorial is designed for software developers and IT professionals interested in the HP E-speak Web Services Platform. It does not assume prior knowledge of HP E-speak, but a familiarity with distributed software development will be useful. The speaker will use code samples written in Java and XML, but even developers with little Java expertise should be able to understand the examples.

An outline of topics includes:

- Reviewing the HP E-speak Web Services Platform
- Developing a web service using Java, XML, SOAP, UDDI, and WSDL
- Finding, advertising, and using web services
- Understanding how to develop web services today, even as web services standards evolve

Presentation materials will be provided at the tutorial session and will also be made available for download through www.hp.com/go/e-speak after the conference.