



GLOBAL STANDARD SETTING 2007
An Interactive Discussion



WEB SERVICES
INTEROPERABILITY
ORGANIZATION

Open Standards + Profiles = Interoperability

Presented by

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Open Forum for Standards Developers
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Overview

Agenda

- ▶ WS-I and Web services
- ▶ Web Services Interoperability Organization
- ▶ International Reach
- ▶ Challenges to achieving Global Recognition
- ▶ New Organization starting out

Additional Information

- ▶ Web services standards set
- ▶ WS-I deliverables
- ▶ Why are Profiles necessary?
- ▶ Progress to date
- ▶ Work in progress
- ▶ Stay in touch with WS-I

WS-I and Web services

The Web services adoption and support cycle

- ▶ Vendors will need to deliver more and better support as adoption increases
- ▶ As more common services become available the pace of adoption will accelerate
- ▶ Web services succeed in direct proportion to the **technologies that support them**

Web services must interoperate to be effective

- ▶ An enterprise typically consists of tools and solutions from multiple providers
- ▶ Customers want and need quality, modularity, evolve-ability, etc.
- ▶ **Interoperability is a critical requirement to make Web services work**

Interoperability is more than Open standards

- ▶ Standards Development Organizations (OASIS / W3C) build standalone standards
- ▶ Products use groups of standards
- ▶ Interoperability places new requirements on standards
- ▶ **WS-I compliments the work done by OASIS, W3C, etc.**

Web Services Interoperability Organization

An open industry effort

- ▶ Advancing Web services interoperability

Broad participation

- ▶ 180+ companies
 - Software Vendors, Consultants, Industry Organizations, etc.

Establish best practices for achieving interoperability

- ▶ Based on existing open standards

International Reach

Global Membership

- ▶ BT Group, Deutsche Telecom, Ericsson, France Telecom, Fujitsu, Hitachi, Kantega, Microfocus, NEC, Nokia, SAP, Software AG, etc.

WS-I Board representation

- ▶ President and chairman of the board – SAP
- ▶ Board members – World's largest technology companies invested in Web Services (BEA, Fujitsu, HP, IBM, Intel, Microsoft, Oracle, Sun Microsystems, WebMethods)

PAS submission to ISO

- ▶ WS-I Basic Profile 1.1
 - Approval anticipated 2H07
- ▶ WS-I Basic Security Profile 1.0 to be submitted

Collaboration with the EU

- ▶ Leverage Web Services to achieve Enterprise Interoperability across EU

Challenges to achieving Global Recognition

Global Recognition

- ▶ Broad adoption for WS-I deliverables in vendor products
- ▶ Interoperability as a key success factor for Web Services
- ▶ Customers request WS-I compliant technologies
- ▶ Analyst organizations recognize value of deliverables

Challenges

- ▶ Speed of adoption determined by broad consensus across technology vendors on the WS-I board
 - Alignment of product roadmaps takes time
- ▶ Balance user and vendor interests

Outreach

- ▶ Presence at key conferences
 - User
 - Analyst (Gartner / Burton Catalyst)
- ▶ Update key analyst firms – Worldwide
- ▶ Press releases
 - Supporting new deliverables
 - Achievements
- ▶ Interop events

New Organization starting out

Critical requirements

- ▶ Proposed deliverables provide high value to target audiences
- ▶ Organization fully focused on a set of deliverables that fosters the goal of interoperability
- ▶ Core membership
 - Customers
 - Vendors
 - Services Providers
 - Collaborating Standards Organizations
- ▶ Adapt to change
- ▶ Active participation by membership
 - ▶ Building of deliverables
 - ▶ Promotion of deliverables
- ▶ Clear outreach plan / execution capability
- ▶ Money
 - To run the organization

Additional Information about WS-I

The Web Services Standards Set

Additional Capabilities	Management	Portals	
Business Process Orchestration	Composition/Orchestration		
Composable Service Elements	Security	Reliable Messaging	Transactionality
Messaging	Endpoint Identification, Publish/Subscribe		
Description	XML Schema, WSDL, UDDI, SOAP with Attachments		
Invocation	XML, SOAP		
Transports	HTTP, HTTPS, Others		

The Web services standards set: WS-I progress to date

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WS-I Deliverables

Profiles

- ▶ Selected set of specifications based on customer requirements
- ▶ **Guidelines and conventions** for using a defined set of specifications to ensure interoperability

Sample applications

- ▶ Sample code and applications support multiple environments
- ▶ **Demonstrate interoperability for completed Profiles**

Test tools and supporting materials

- ▶ Supporting documentation
- ▶ **Test profile implementations for conformance**

Why are Profiles necessary ?

WS-I Profile Provides Interoperability Guidance	Example - Reliable Secure Profile (RSP)
<p>Eliminates ambiguity by tightening requirements (MAY, SHOULD → MUST)</p>	<p>Issue 37</p> <p>WS-RM : Receiver SHOULD ignore unrecognized extensions RSP : Receiver MUST ignore unrecognized extension</p>
<p>Avoids difference in interpretations by clarifying semantics</p>	<p>Issue 30</p> <p>Define the semantics of a “one-way” message</p>
<p>Fill the gap created by composing different specifications together</p>	<p>Issue 16</p> <p>WS-RM : Defines protocol elements – headers and body WS-S : Defines how to secure headers and/or body RSP : Requires securing both WS-RM headers and body</p> <p>Issue 29</p> <p>RSP headers : Requires that WS-RM should not mess up WS-A</p>

Progress to Date

Final material

- ▶ Basic Profile 1.0 and 1.1
- ▶ Simple SOAP Binding Profile 1.0
- ▶ Attachments Profile 1.0
- ▶ Security Challenges, Threats and Countermeasures 1.0
- ▶ REL and SAML Token Profiles
- ▶ Basic Security Profile 1.0

Work in Process

- ▶ Basic Security Profile 1.1
- ▶ Basic Profile 1.2 & 2.0
- ▶ Reliable Secure Profile 1.0

Work in Progress

Basic Profile 1.2

- ▶ W3C WS-Addressing
- ▶ SOAP 1.1 Binding for MTOM
 - Target completion – 2H07

Basic Profile 2.0

- ▶ Replace SOAP 1.1 with SOAP 1.2
- ▶ WSDL 1.1 Binding for SOAP 1.2
 - Target completion --- 1H08

Work in Progress (con't)

Basic Security Profile 1.1

- ▶ Replace WS-Security1.0 with WS-Security1.1
 - Target completion – 2H07

Reliable Secure Profile 1.0

- ▶ OASIS WS-Reliable Messaging 1.1
- ▶ OASIS WS-Secure Conversation 1.3
- ▶ Composes with BP1.2 or BP2.0 and BSP1.0
 - Target completion --- 1H08

Stay in touch with WS-I

Visit WS-I at www.ws-i.org

- ▶ Deliverables available for free download

Become a member

- ▶ User requirements identify future profiles

Open Standards => Profiles => Interoperability