

GLOBAL STANDARD SETTING 2007
An Interactive Discussion



Open Standards + Profiles

Interoperability

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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		iable saging	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?

Example - Reliable Secure Profile (RSP)			
Issue 37			
WS-RM: Receiver SHOULD ignore unrecognized extensions RSP: Receiver MUST ignore unrecognized extension			
Issue 30 Define the semantics of a "one-way" message			
Issue 16 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 Issue 29 RSP: Requires that WS-RM should not mess up WS-A headers			
I Week			



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

