WS-I PROFILES IN PROGRESS

The Web Services Interoperability Organization (WS-I) Working Groups are developing four new WS-I profiles: the Basic Profile 1.2 and the Basic Profile 2.0 to address asynchronous messaging, the Basic Security Profile 1.1 to address transport security and other security considerations, and the Reliable Secure Profile 1.0 to address reliable messaging with security. A WS-I profile is a set of implementation guidelines to ensure the interoperability of Web services created according to a designated set of specifications and standards.

Basic Profile 1.2 and 2.0

The WS-I Basic Profile consists of implementation guidelines on how core Web services specifications should be used together to develop interoperable Web services. To date, WS-I has produced the Basic Profile 1.0 and 1.1. The Basic Profile 1.2 is a revision of the WS-I Basic Profile 1.1 and incorporates asynchronous messaging. It is based on the following Web services specifications:

• W3C WS-Addressing 1.0 Core

• W3C WS-Addressing 1.0 SOAP Binding

• W3C WS-Addressing 1.0 WSDL Binding

• SOAP 1.1 Binding for MTOM 1.0

The Basic Profile 2.0 builds on the Basic Profile 1.2 and is based on SOAP 1.2 with Message Transmission Optimization Mechanism (MTOM) and XML-binary Optimized Packaging (XOP). Both the Basic Profile 1.2 and the Basic Profile 2.0 have progressed to Working Group Approval Drafts and may be viewed at www.ws-i.org.

Basic Security Profile 1.1

The Basic Security Profile is an interoperability profile that addresses transport security, SOAP messaging security and other security considerations. It references existing specifications and standards, including the OASIS Web Services Security: SOAP Message Security 1.0 specification.

The Basic Security Profile 1.1 is an enhancement to the Basic Security Profile 1.0 that provides guidance on the use of Web Services Security: SOAP Message Security 1.1, as well as the REL, Kerberos, SAML, Username and X.509 security token formats.

Reliable Secure Profile 1.0

The Reliable Secure Profile (RSP) 1.0 will deliver interoperability guidance to Web services architects and developers concerning reliable messaging with security. Reliable Secure Profile 1.0 will be based upon the following Web services specifications:

• OASIS WS-ReliableMessaging 1.1

• OASIS WS-SecureConversation 1.3

WS-ReliableMessaging is a Web services specification that allows two systems to send messages to each other reliably. The aim of this specification is to ensure that messages are transferred properly from the sender to the receiver. The WS-SecureConversation specification introduces a security context and its usage. The Reliable Secure Profile 1.0 will resolve the interoperability issues that currently exist when these specifications are implemented.

In addition, the WS-I Reliable Secure Profile Working Group is developing scenarios, requirements and profile guidance in parallel with the related standardization efforts within the OASIS WS-Reliable Exchange Technical Committee. The scenarios and requirements work considers interoperability issues identified across a wide range of Web services applications (e.g., mobile devices, intermediaries, enterprise applications, etc.).

About WS-I

WS-I (www.ws-i.org) is an open industry organization chartered to establish Best Practices for Web services interoperability, for selected groups of Web services standards, across platforms, operating systems and programming languages.

WS-I comprises a diverse community of Web services leaders from a wide range of companies and standards development organizations (SDOs). WS-I committees and working groups create Profiles and supporting Testing Tools based on Best Practices for selected sets of Web services standards. The Profiles and Testing Tools are available for use by the Web Services community to aid in developing and deploying interoperable Web services.

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WEB SERVICES INTEROPERABILITY ORGANIZATION

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