



## Working Group Charter:

### Web Services Basic Profile

Web Services Basic Profile (wsbasic)

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This Working Group will produce the Web Services Basic Profile versions 1.2 and 2.0 and will complete remaining work on the Web Services Basic Profile version 1.1, Simple SOAP Binding Profile 1.0, and Attachments Profile 1.0.

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## 7 1. Goals and Mission

8 The Basic Profile Working Group will develop the Basic Profile versions 1.2 and 2.0  
9 (wsi\_wsbasic). Basic Profile 1.2 will provide interoperability guidance for the scope of  
10 Basic Profile 1.1 and with the addition of WS-Addressing. Basic Profile 2.0 will provide  
11 interoperability guidance for the following specifications: W3C WS-Addressing 1.0, W3C  
12 MTOM 2005-01-25, W3C XOP 2005-01-25, W3C SOAP 1.2 and any normatively referenced  
13 specifications, such as IETF RFCs.

14 Prior to commencing profile development, the Working Group will develop  
15 requirements and scenarios documents which clearly define interoperability issues that  
16 motivate profile guidance.

17 The Working Group shall make every effort to enable composition with Basic Security  
18 Profile versions 1.0 and 1.1. The Working Group shall also coordinate closely with the  
19 development of the Reliable Secure Messaging Profile 1.0 to enable similar levels of  
20 composition.

21 The Working Group shall also carry out interoperability testing of Basic Profile 1.2 and  
22 2.0 with the goal of demonstrating that web service instances implemented using the  
23 profile are interoperable.

## 24 2. Working Group Chair, Co-Chair and Membership

25 The Chair will be appointed by the WS-I Board. The Co-Chair and membership will be  
26 determined as a part of the WS-I community activity.

## 27 3. Team Size and Responsibilities

28 Participants should include, but not be limited to, those engaged in Web service  
29 development, software architects, and experts in one or more of the related  
30 specifications.

## 31 4. Scope of Effort

32 This Working Group will focus on:

- 33 • The development of the Basic Profile versions 1.2 and 2.0. WSDL 2.0 [1] guidance is  
34 explicitly out of scope for this Working Group.
- 35 • Interoperability testing of Basic Profile 1.2 and 2.0

### 36 *Basic Profile 1.2 Development*

37 The Basic Profile 1.2 will be based upon the following specifications:

- 38 1. WS-I Basic Profile 1.1 [2]
- 39 2. W3C WS-Addressing 1.0 - Core [3]
- 40 3. W3C WS-Addressing 1.0 - SOAP Binding [4]
- 41 4. W3C WS-Addressing 1.0 - Metadata [5]
- 42 5. SOAP 1.1 Binding for MTOM 1.0 [6]

- 43 6. Describing Media Content of Binary Data in XML [7]  
 44 7. Resource Representation SOAP Header Block [8]

45 The Basic Profile 1.2 should include the minimum number of changes required to  
 46 incorporate WS-Addressing and allow for composition with the Reliable Secure  
 47 Messaging Profile 1.0. Once the Basic Profile 1.2 is progressed to Working Group  
 48 Approval draft, the Working Group will next focus on development of Basic Profile 2.0.

49 *Basic Profile 2.0 Development*

50 The Basic Profile 2.0 will be based upon the following specifications \*\*:

- 51 1. W3C WS-Addressing 1.0 - Core  
 52 2. W3C WS-Addressing 1.0 - SOAP Binding  
 53 3. W3C WS-Addressing 1.0 - Metadata  
 54 4. W3C SOAP Version 1.2 Part 1: Messaging Framework (Second Edition) [9]  
 55 5. W3C SOAP Version 1.2 Part 2: Adjuncts (Second Edition) [10]  
 56 6. W3C Message Transmission Optimization Method [11]  
 57 7. W3C XML-binary Optimized Packaging [12]  
 58 8. W3C Namespaces in XML [13]  
 59 9. W3C XML 1.0 Second Edition [14]  
 60 10. W3C WSDL 1.1 [15]  
 61 11. W3C XML Schema 2001 Part 1: Structures [16]  
 62 12. W3C XML Schema 2001 Part 2: Datatypes [17]  
 63 13. OASIS UDDI 2 [18]  
 64 14. OASIS UDDI 3 [19]  
 65 15. WSDL 1.1 Binding Extension for SOAP 1.2 [20]  
 66 16. Describing Media Content of Binary Data in XML  
 67 17. Resource Representation SOAP Header Block

68 The Basic Profile version 2.0, when practical, should cleanly compose with the  
 69 following specifications:

70 Basic Security Profile 1.0 and related profiles:

- 71 1. WS-I Basic Security Profile 1.0 [21]

72 Basic Security Profile 1.1 and related profiles:

- 73 2. WS-I Basic Security Profile 1.1 [25]

74 Reliable Secure Profile 1.0:

- 75 3. WS-I Reliable Secure Profile 1.0 [27] \*

76 \* The Basic Profile Working Group will coordinate closely with the Reliable Secure  
 77 Working Group as their respective profiles are developed. Steps should be taken to  
 78 ensure clean composition between these profiles.

79 \*\* In order to have clean composition between specifications, the Board is expected to  
 80 extend the list of referenced specifications for additional bindings as appropriate.

81 The scenarios and requirements work should consider interoperability issues identified  
 82 across a wide range of Web services applications (e.g., mobile, devices, intermediaries,  
 83 enterprise applications, etc.)

84 Finally, the WG is charged with collaborating with the Liaison Committee to produce  
 85 derivative material of the WS-I Basic Profile 1.1, Simple SOAP Binding Profile 1.0 [28]

86 and Attachments Profile 1.0 [29] that satisfies the requirements of a formal ISO PAS  
87 submission of these specifications.

88 Unless approved by the Board, this Working Group will not develop material for any  
89 profiles other than the Basic Profile versions 1.2 and 2.0, or create deliverables not  
90 explicitly defined in this charter.

#### 91 *Basic Profile 1.2 and 2.0 Testing Approach*

92 Develop an approach to interoperability testing for Basic Profile 1.2 and 2.0 that can be  
93 used as a template for interoperability testing in the WS-I for the future. It should have  
94 the following characteristics:

- 95 • Uses contributed and/or third-party tools to provide the testing tools where  
96 possible
- 97 • Defines XML Schema for the test assertions
- 98 • Defines XML Schema for test log and test results format.

#### 99 *Basic Profile 1.2 and 2.0 Test Assertions*

100 Produce test assertions for all of the BP 1.2 and 2.0 requirements using the test  
101 assertion schema. As many of these test assertions as is reasonably possible should  
102 contain machine-executable test expressions. These test assertions shall be a  
103 normative part of the BP 1.2 and 2.0 profiles.

#### 104 *Basic Profile 1.2 and 2.0 Testing*

105 The goal of this testing is for the BP Working Group to demonstrate that web service  
106 instances implemented using the profile are interoperable.

107 There are two parts:

- 108 • Create test scenarios, test plan and test data that define a set of web service  
109 instances which, once invoked, enable the capturing of test logs that exercise as  
110 many of the BP 1.2 and 2.0 test assertions as reasonable. The test scenarios, test  
111 plan and test data shall be material deliverables
- 112 • Organize one or more interoperability testing events, under a WS-I mandate, that  
113 execute the test plan, capturing test logs that are then analyzed to determine  
114 interoperability

### 115 **5. Duration of Working Group**

116 This Working Group will produce deliverables for circulation to the Board for approval  
117 as described in section 6 (below). The Working Group will then remain active through  
118 the "Adoption of Material" process as per Article VII, Section 6 of the WS-I Bylaws. The  
119 Board may, at its discretion, extend the Working Groups term to accommodate rework  
120 associated with proposed changes from Working Group members, the Board, and the  
121 WS-I Membership and/or the development of Errata for deliverables defined in this  
122 Profile.

### 123 **6. Required Deliverables**

- 124 1) Web Services Basic Profile 1.1, Simple SOAP Binding Profile 1.0, Attachments Profile 1.0  
125 PAS submission - completed prior to revision dated 2007-03-29
- 126 2) A requirements document based upon interoperability scenarios, including use of BSP 1.1 to  
127 include security requirements, that are independent of reference to particular technologies  
128 or standards, and encompassing the scope of Basic Profile 1.2 and 2.0.

- 129 3) Basic Messaging Usage Scenarios Working Group Approval Draft, supporting the  
130 requirements specified in item 2 above.
- 131 4) Basic Profile 1.2 Working Group Approval Draft including normative test assertions.
- 132 5) Basic Profile 2.0 Working Group Approval Draft including normative test assertions.
- 133 6) Gap analysis which includes a list of requirements and interoperability scenarios that can  
134 not be satisfied because of a lack of standardization or published protocols. This gap  
135 analysis will include recommendations on what steps should be completed to close those  
136 gaps.
- 137 7) The goal of the deliverable test artifacts is to include all the tools needed to enable a third  
138 party to implement the test scenarios and then verify conformance to the profile by log-  
139 file analysis.  
140 These deliverables should include at a minimum:
- 141 a) -Test Assertions contained in the profile
  - 142 b) -Schema for test log file
  - 143 c) -Method or tool for producing test log files
  - 144 d) -Test log analysis tool producing test analysis output
  - 145 e) -Schema for test analysis output
  - 146 f) -Test reporting (rendering) tool
  - 147 g) -Test scenarios including associated test data
  - 148 h) -Test plans
- 149 8) A Basic Profile 1.2 and 2.0 test report documenting the interoperability test results.

## 150 7. Critical Dependencies with Other WS-I Working Groups

- 151 1. The Web Services Sample Application Working Group may provide assistance to BP  
152 WG in implementing interoperability test scenarios for BP 1.2 and 2.0.
- 153 2. The Test Tools Development Working Group may provide assistance to BP WG in  
154 implementing the test analyzer for BP 1.2 and 2.0.
- 155 3. The Reliable Secure Messaging Working Group has key dependencies on the  
156 development of Basic Profile versions 1.2 and 2.0. Ongoing coordination is  
157 required.

158 Note that the implementation of Sample Applications and the development of  
159 testing tools for interoperability testing will not be carried out for Basic Profile 1.2  
160 and 2.0.

## 161 8. References

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- 164 [2] WS-I Basic Profile 1.1.  
165 <http://www.ws-i.org/Profiles/BasicProfile-1.1.html>  
166 Basic Profile 1.1 Errata  
167 <http://www.ws-i.org/Profiles/BasicProfile-1.1-errata.html>
- 168 [3] W3C WS-Addressing 1.0 - Core.  
169 <http://www.w3.org/TR/2006/REC-ws-addr-core-20060509/>
- 170 [4] W3C WS-Addressing 1.0 - SOAP Binding.  
171 <http://www.w3.org/TR/2006/REC-ws-addr-soap-20060509/>
- 172 [5] W3C WS-Addressing 1.0 - Metadata.  
173 <http://www.w3.org/TR/2007/REC-ws-addr-metadata-20070904/>

- 174 [6] SOAP 1.1 Binding for MTOM 1.0  
175 <http://www.w3.org/Submission/2006/SUBM-soap11mtom10-20060405/>
- 176 [7] Describing Media Content of Binary Data in XML W3C WG Note  
177 <http://www.w3.org/TR/2005/NOTE-xml-media-types-20050504/>
- 178 [8] Resource Representation SOAP Header Block W3C REC  
179 <http://www.w3.org/TR/2005/REC-soap12-rep-20050125/>
- 180 [9] W3C SOAP Version 1.2 Part 1: Messaging Framework (Second Edition).  
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- 182 [10] W3C SOAP Version 1.2 Part 2: Adjuncts (Second Edition).  
183 <http://www.w3.org/TR/soap12-part2/>
- 184 [11] W3C SOAP Message Transmission Optimization Method.  
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- 190 [14] W3C XML 1.0 Second Edition.  
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- 192 [15] W3C Web Services Description Language 1.1.  
193 <http://www.w3.org/TR/2001/NOTE-wsdl-20010315>
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195 <http://www.w3.org/TR/2004/REC-xmlschema-1-20041028/>
- 196 [17] W3C XML Schema 2001 Part 2: Datatypes.  
197 <http://www.w3.org/TR/2004/REC-xmlschema-2-20041028/>
- 198 [18] UDDI 2 references
- 199 UDDI Version 2.04 API Specification, Dated 19 July 2002  
200 <http://uddi.org/pubs/ProgrammersAPI-V2.04-Published-20020719.htm>
- 201 UDDI Version 2.03 Data Structure Reference, Dated 19 July 2002  
202 <http://uddi.org/pubs/DataStructure-V2.03-Published-20020719.htm>
- 203 UDDI Version 2 XML Schema  
204 [http://uddi.org/schema/uddi\\_v2.xsd](http://uddi.org/schema/uddi_v2.xsd)
- 205 [19] UDDI 3 references
- 206 UDDI Version 3.0.2, UDDI Spec Technical Committee Draft, Dated 20041019  
207 <http://uddi.org/pubs/uddi-v3.0.2-20041019.htm>
- 208 UDDI Version 3.0.2 XML Schema  
209 [http://uddi.org/schema/uddi\\_v3.xsd](http://uddi.org/schema/uddi_v3.xsd)

- 210 [20] WSDL 1.1 Binding Extension for SOAP 1.2
- 211 <http://schemas.xmlsoap.org/wsdl/soap12/>
  
- 212 [21] WS-I Basic Security Profile 1.0.
- 213 <http://www.ws-i.org/Profiles/BasicSecurityProfile-1.0.html>
- 214
  
- 215 [25] WS-I Basic Security Profile 1.1.
- 216 <http://www.ws-i.org/Profiles/BasicSecurityProfile-1.1.html>
  
- 217 [27] WS-I Reliable Secure Messaging Profile 1.0. [TBD]
  
- 218 [28] Simple SOAP Binding Profile 1.0
- 219 <http://www.ws-i.org/Profiles/SimpleSoapBindingProfile-1.0.html>
  
- 220 [29] Attachments Profile 1.0
- 221 <http://www.ws-i.org/Profiles/AttachmentsProfile-1.0.html>
  
- 222 Attachments Profile 1.0 Errata
- 223 <http://www.ws-i.org/Profiles/AttachmentsProfile-1.0-errata.html>