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Abstract:

The SCA Web Service binding specified in this document applies to the services and references of an SCA composites. It defines the manner in which a service can be made available as a web service, and in which a reference can invoke a web service.

This binding is a WSDL-based binding; that means it either references an existing WSDL binding or allows one to specify enough information to generate one. When an existing WSDL binding is not referenced, rules defined in this document allow one to generate a WSDL binding.

Status:

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1 1 Introduction

The SCA Web Service binding specified in this document applies to the services and
references of composites [1]. It defines the manner in which a service can be made
available as a web service, and in which a reference can invoke a web service.

This binding is a WSDL-based binding; that means it either references an existing WSDL
binding or allows one to specify enough information to generate one. When an existing
WSDL binding is not referenced, rules defined in this document allow one to generate a
WSDL binding.

9 The Web Service binding can point to an existing WSDL [2] document, separately

authored, that specifies the details of the WSDL binding and portType schema to be
used to provide or invoke the web service. In this case the SCA web services binding
allows anything that is valid in a WSDL binding, including rpc-encoded style and binding
extensions. It is the responsibility of the SCA system provider to ensure support for all
options specified in the binding. Interoperation of such services is not guaranteed.

The SCA Web Service binding also provides attributes that can be used to provide the
details of a WSDL SOAP binding. This allows a WSDL document to be synthesized in the
case that one does not already exist. In this case only WS-I compliant mapping is
supported.

In most cases it is expected that a binding applied to a composite's reference will point
to an existing WSDL document that describes the web service to be invoked. The
binding applied to a composite's service may use either approach.

The SCA Web Service binding can be further customized through the use of SCA Policy
Sets. For example, a requirement to conform to a WS-I profile [3] could be represented
with a policy set.

25 **1.1 Terminology**

The key words "MUST", "MUST NOT", "REQUIRED", "SHALL", "SHALL NOT", "SHOULD", "SHOULD NOT", "RECOMMENDED", "MAY", and "OPTIONAL" in this document are to be interpreted as described in **[RFC2119]**.

29 **1.2 Normative References**

- 30[RFC2119]S. Bradner, Key words for use in RFCs to Indicate Requirement Levels,
http://www.ietf.org/rfc/rfc2119.txt, IETF RFC 2119, March 1997.
- 32 [1] SCA Assembly Model Specification
- 33 http://www.osoa.org/display/Main/Service+Component+Architecture+Specifications
- 34 [2] WSDL Specification
- 35 WSDL 1.1: http://www.w3.org/TR/wsdl
- 36 WSDL 2.0: http://www.w3.org/TR/wsdl20/
- 37 [3] WS-I Profiles
- 38 http://www.ws-i.org/Profiles/BasicProfile-1.1.html
- 39 http://www.ws-i.org/Profiles/AttachmentsProfile-1.0.html
- 40 http://www.ws-i.org/Profiles/SimpleSoapBindingProfile-1.0.html

- 41 http://www.ws-i.org/Profiles/BasicSecurityProfile-1.0.html
- 42 [4] JAX-WS Specification
- 43 http://jcp.org/en/jsr/detail?id=224
- 44 [5] SOAP specification
- 45 http://www.w3.org/TR/2003/REC-soap12-part1-20030624/
- 46 http://www.w3.org/TR/2000/NOTE-SOAP-20000508/
- 47 [6] Web Services Addressing 1.0 Core
- 48 http://www.w3.org/TR/2006/REC-ws-addr-core-20060509/
- 50 **TBD** TBD

- 51 **1.3 Non-Normative References**
- 52 **TB** TBD

53 2 Web Service Binding Schema

The Web Service binding element is defined by the following pseudo-schema.

```
<br/>
<binding.ws wsdlElement="xs:anyURI"?
<br/>
wsdli:wsdlLocation="list of xs:anyURI"?
<br/>
...>
</wsa:EndpointReference>...<//wsa:EndpointReference>*
...
</binding.ws>
```

- /binding.ws/@wsdlElement optional attribute that specifies the URI of a WSDL element. The use of this attribute indicates that the SCA binding points to the specified element in an existing WSDL document. The URI can have the following forms:
- 66 o Service:

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<WSDL-namespace-URI>#wsdl.service(<service-name>)

- In this case, all the endpoints in the WSDL Service that have equivalent
 PortTypes with the SCA service or reference must be available to the SCA service
 or reference.
- 71 o Port (WSDL 1.1):
 - <WSDL-namespace-URI>#wsdl.port(<service-name>/<port-name>)
 - In this case, the identified port in the WSDL 1.1 Service must have an equivalent PortType with the SCA service or reference.
- 75 o Endpoint (WSDL 2.0):
- 76 <WSDL-namespace-URI>#wsdl.endpoint(<service-name>/<endpoint-name>)
- In this case, the identified endpoint in the WSDL 2.0 Service must have anequivalent PortType with the SCA service or reference.
- 79 o Binding:

<WSDL-namespace-URI>#wsdl.binding(<binding-name>)

- 81 In this case, the identified WSDL binding must have an equivalent PortType with
 82 the SCA service or reference. In this case the endpoint address URI for the SCA
 83 service or reference must be provided via the URI attribute on the binding.
- */binding.ws/@wsdli:wsdlLocation* optional attribute that specifies the location of the WSDL document. This attribute can be specified in the event that the <WSDL-namespace-URI> in the 'endpoint' attribute is not dereferencable, or when the intended WSDL document is to be found at a different location than the one pointed to by the <WSDL-namespace-URI>. The use of this attribute indicates that the WSDL binding points to an existing WSDL document.
- */binding.ws/wsa:EndpointReference* optional WS-Addressing [6]
 EndpointReference that specifies the endpoint for the service or reference. When this
 element is present along with the wsdlElement attribute on the parent element, the
 wsdlElement attribute value MUST be of the 'Binding' form as specified above, i.e.
 <WSDL-namespace-URI>#wsdl.binding(<binding-name>).

- 95 /binding.ws/@{any} this is an extensibility mechanism to allow extensibility via attributes.
- 97 /binding.ws/any this is an extensibility mechanism to allow extensibility via elements.

99 2.1 Endpoint URI resolution

or

- 100 The rules for resolving the URI at which an SCA service is hosted, or SCA reference 101 targets, when used with binding.ws (in precedence order) are:
 - 1. The URIs in the endpoint(s) of the referenced WSDL
- 103

102

- 104
- The URI specified by the wsa: Address element of the wsa: EndpointReference,
- 1052.The explicitly stated URI in the "uri" attribute of the binding.ws element, which106may be relative,
- 107 3. The implicit URI as defined by the Assembly specification

The URI in the WSDL endpoint or in the wsa: Address of an EPR may be a relative URI, in
which case it is relative to the URI defined in (2) or (3). The wsa: Address element can
be the empty relative URI, in which case it uses the URI defined in (2) or (3) directly.
This allows the EPR writer to specify reference parameters, metadata and other EPR
contents while allowing the URI to be chosen by the deployer.

113 To reference a WSDL document and also specify an EPR, the wsdlElement attribute must 114 refer to a binding element in the WSDL and not an endpoint or service.

115 **2.2 Interface mapping**

- When binding.ws is used on a service or reference with an interface that is not defined
 by interface.wsdl, then a WSDL interface for the service or reference is derived from the
 interface by the rules defined for that interface type.
- For example, for interface.java, the mapping to a WSDL portType is as defined in the SCA Assembly Specification [1].
- Binding.ws implementations may use appropriate standards, for example WS-I AP 1.0 or
 MTOM, to map interface parameters to binary attachments transparently to the target
 component.
- 124

125 **2.3 Production of WSDL description for an SCA service**

Any service with one or more web service bindings with HTTP endpoints SHOULD return a WSDL description of the service in response to an HTTP GET request with the "?wsdl" suffix to that HTTP endpoint. If none of the web service bindings have HTTP endpoints,

- then some other means of obtaining the WSDL description of the service should be
 provided. This may include out of band mechanisms, for example publication to a UDDI
 registry.
- Refer to section 2.3 for a detailed definition of the rules that SHOULD be used for
 generating the WSDL description of an SCA service with one or more web service
 bindings.
- 135

136 **2.4 Additional binding configuration data**

SCA runtime implementations may provide additional metadata that is associated with a
web service binding, for example to enable JAX-WS [4] handlers to be executed as part
of the target component dispatch. The specification of such metadata is SCA runtime-

- specific and is outside of the scope of this document.
- 141

142 2.5 Web Service Binding and SOAP Intermediaries

- 143 The Web Service binding does not provide any direct or explicit support for SOAP144 intermediaries [5].
- 145

146 **2.6 Support for WSDL extensibility**

When a Web Service binding is specified using the wsdlElement attribute, the details of
the binding are specified by the WSDL element referenced by the value of the attribute.
WSDL elements allow for extensibility via elements as well as attribute. The Web Service
binding does not curtail the use of such extensibility in WSDL. Note that as a
consequence of this, when using this form of Web Service binding, it is not possible to
determine whether the binding is supported by the SCA runtime without parsing the
referenced WSDL element and its dependent elements.

3 Web Service Binding Examples

The following snippets show the sca.composite file for the MyValueComposite file
 containing the service element for the MyValueService and reference element for the
 StockQuoteService. Both the service and the reference use a Web Service binding.

159

160 3.1 Example Using WSDL documents

This example shows a service and reference using the SCA Web Service binding, using
 existing WSDL documents in both cases. In each case there is a single binding element,
 whose name defaults to the service/reference name.

The service's binding is defined by the WSDL document associated with the given URI.This service must be conformant with the WS-I basic profile 1.1.

The reference's first binding is defined by the specified WSDL service in the WSDL
document at the given location. The reference may use any of the WSDL service's
ports/endpoints to invoke the target service. The reference's second binding is defined
by the specified WSDL binding. The specific endpoint URI to be invoked is provided via
the URI attribute.

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<?xml version="1.0" encoding="ASCII"?> <composite xmlns="http://www.osoa.org/xmlns/sca/1.0" name="MyValueComposite"> <service name="MyValueService"> <interface.java interface="services.myvalue.MyValueService"/> <binding.ws wsdlElement="http://www.myvalue.org/MyValueService#</pre> wsdl.endpoint(MyValueService/MyValueServiceSOAP)"/> . . . </service> . . . <reference name="StockQuoteReference1"> <interface.java interface="services.stockquote.StockQuoteService"/> <binding.ws wsdlElement="http://www.stockquote.org/StockQuoteService#</pre> wsdl.service(StockQuoteService)" wsdli:wsdlLocation="http://www.stockquote.org/StockQuoteService http://www.stockquote.org/StockQuoteService.wsdl"/> </reference> <reference name="StockQuoteReference2"> <interface.java interface="services.stockquote.StockQuoteService"/> <binding.ws wsdlElement="http://www.stockquote.org/StockQuoteService#</pre> wsdl.binding(StockQuoteBinding)" wsdli:wsdlLocation="http://www.stockquote.org/StockQuoteService http://www.stockquote.org/StockQuoteService.wsdl"/> uri="http://www.stockquote.org/StockQuoteService5"/> </reference> </composite>

3.2 Examples Without a WSDL Document

The next example shows the simplest form of the binding element without WSDL document, assuming all defaults for portType mapping and SOAP binding synthesis. The service and reference each have a single binding element, whose name defaults to the service/reference name.

The service is to be made available at a location determined by the deployment of this component. It will have a single port address and SOAP binding, with a simple WS-I BP 1.1 compliant binding, and using the default options for mapping the Java interface to a WSDL port type.

The reference indicates a service to be invoked which must have a SOAP binding and
portType that matches the default options for binding synthesis and interface mapping.
One particular use of this case would be where the reference is to an SCA service with a
web service binding which itself uses all the defaults.

The next example shows the use of the binding element without a WSDL document, with multiple SOAP bindings with non-default values. The SOAP 1.2 binding name defaults to the service name, the SOAP 1.1 binding is given an explicit name. The reference has a web service binding which uses SOAP 1.2, but otherwise uses all the defaults for SOAP binding. The reference binding name defaults to the reference name.

262

</composite>

263

3.3 Example PolicySet Providing The Conversation Intent

This policy set applies to binding.ws and provides the conversation intent. The conversation intent is provided by using WS-ReliableMessaging protocol which has a concept of a Sequence. This Sequence (which appears as a wsrm: Sequence SOAP header in the message) is used as a correlation mechanism, on the wire, to implement conversational semantics.

270 271	<pre><policyset <="" name="WSRM-Sequence-based-conversation" pre="" provides="sca:conversation"></policyset></pre>		
272	appliesTo="sca:binding.ws">		
273 <wsp:policy></wsp:policy>			
274	<wsrmp:rmassertion< th=""></wsrmp:rmassertion<>		
275	<pre>xmlns:wsrmp="http://docs.oasis-open.org/ws-rx/wsrmp/200608"/></pre>		
276			
277			

279 **4 WSDL Generation**

This section defines the rules that SHOULD be used for generation of a WSDL document
that describes an SCA service with one or more web service bindings that require a
SOAP binding.

A WSDL document may be generated for an SCA service with non-SOAP web service bindings, or other bindings. For non-SOAP web service bindings that do not refer to an existing WSDL document, or non-web service bindings, the generation rules below may be considered a template, and a similar approach taken.

287

288 **4.1 Intents**

289 The following intents affect WSDL generation:

- 290 soap
- 291 This indicates that a SOAP binding is required. The SOAP binding may be of any 292 SOAP version, including multiple versions.
- soap.1_1
 A SOAP 1.1 binding only is required.
- soap.1_2
 A SOAP 1.2 binding only is required.
- 297

298 **4.2 WSDL Service and Ports**

A separate WSDL document is generated for each SCA service. Each has its own unique target namespace. This is to ensure that bindings on different services of the same component do not clash. The WSDL service has one or more ports for each web service binding on the SCA service that has a SOAP requirement, or that refers to an existing WSDL binding, depending on the requirements of the web service binding. Each of those ports has a single binding.

- Additional ports and bindings may be generated in this WSDL document for non-web
 service bindings, or web service bindings with non-SOAP requirements. The manner in
 which that is done is undefined.
- The binding elements themselves may be generated as defined below, or may be
 imported from existing WSDL documents in the case that the web service binding refers
 to the binding element of such a document.
- The target namespace of the WSDL document, and of the service, ports and generated binding elements is:
- 313 Base System URI for HTTP / Component Name / Service Name
- 314

315 4.3 WSDL Bindings

- The binding elements in the generated WSDL document are either defined within the document, derived from the requirements of the binding, or are imported from existing
- 318 WSDL documents.

- 319 Generated bindings have the following fixed assumptions:
- use="literal" for input and output messages
- style="document" for the binding
- All faults map to soap: faults
- No header or headerFault elements are generated
- The transport is "http://schemas.xmlsoap.org/soap/http", unless the system
 provides intents for alternative transports
- The soap version is determined from the soap intents as defined above
- 327

328 4.3.1 SOAP versions

- Where a web service binding requires a specific SOAP version, then a single WSDL port and SOAP binding of the appropriate version is generated.
- 331 Where no specific SOAP version is required, then one or more WSDL ports with 332 associated SOAP bindings may be generated, depending on the level(s) supported in the
- associated SOAP bindings may be generated, depending on the level(s) supported in thetarget runtime.
- 334

335 **4.4 WSDL PortType**

An SCA service has a single interface. This interface is always imported into the
 generated WSDL document. This may be done directly for WSDL-defined interfaces, or
 indirectly via a WSDL generated from the interface type for the service.

339

340 **4.5 WSDL Generation Rules**

The following is the formal definition of the generation of a WSDL document from an
 SCA service with one or more web service bindings, with either a SOAP requirement or
 existing WSDL document:

```
344
          <?xml version="1.0" encoding="UTF-8"?>
345
           <definitions name="componentName/serviceName"</pre>
346
                        targetNamespace="HTTP Base URI/componentName/serviceName"
347
                        {(if any bindings require SOAP 1.1)
348
                        xmlns:soap11="http://schemas.xmlsoap.org/wsdl/soap/"
349
350
                         {(if any bindings require SOAP 1.2)
351
                         [xmlns:soap12="http://schemas.xmlsoap.org/wsdl/soap12/"]
352
353
                        xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/"
354
                        xmlns="http://schemas.xmlsoap.org/wsdl/">
355
356
             <import namespace="SCA service interface namespace"</pre>
357
                     location="SCA service interface location"/>
358
359
             {(for each binding.ws element in the service with a WSDL, do the following:)
360
             <import namespace="existing WSDL binding namespace"</pre>
361
                     location="existing WSDL binding location"/>
362
             }
363
```

```
364
             {(for each binding.ws element in the service without a WSDL, do the
365
          following
366
               for each SOAP version required:)
367
             <binding name="/service/binding.ws[n]/@name+[/soapVersionPrefix]+'Binding'"</pre>
368
                      type="SCA service interface portType name">
369
               <soapVersionPrefix:binding
370
          transport="http://schemas.xmlsoap.org/soap/http"/>
371
               {(for each operation in the interface do the following:)
372
                 <operation name="name-of-the-operation">
373
                   <soapVersionPrefix:operation/>
374
                   <input>
375
                     <soapVersionPrefix:body use="literal"/>
376
                   </input>
377
                   {(if there is an output)
378
                     <output>
379
                       <soapVersionPrefix:body use="literal"/>
380
                     </output>
381
382
                   {(if there is a fault)
383
                     <fault>
384
                       <soapVersionPrefix:fault name="name-of-the-fault"/>
385
                     </fault>
386
                   }
387
                 </operation>
388
               }
389
             </binding>
390
             }
391
392
             <service name="/service/@name">
393
               {(for each binding.ws element in the service do the following for each
394
          SOAP
395
                 version required:)
396
                 <port name="/service/binding.ws[n]/@name+[/soapVersionPrefix]+'Port'"</pre>
397
398
          binding="/service/binding.ws[n]/@name+[/soapVersionPrefix]+'Binding'">
399
                   <soapVersionPrefix:address location="/service/binding.ws[n]/@uri"/>
400
                 </port>
401
               }
402
             </service>
403
           </definitions>
```

405 A. Web Services Binding Schema

406	xml version="1.0" encoding="UTF-8"?							
407	(c) Copyright SCA Collaboration 2006							
408	<pre><schema <="" pre="" xmlns="http://www.w3.org/2001/XMLSchema"></schema></pre>							
409	targetNamespace="http://www.osoa.org/xmlns/sca/1.0"							
410	xmlns:sca="http://www.osoa.org/xmlns/sca/1.0"							
411	xmlns:wsdli="http://www.w3.org/2004/08/wsdl-instance"							
412	xmlns:wsa="http://www.w3.org/2004/12/addressing"							
413 elementFormDefault="qualified">								
414	-							
415	<pre><import <="" namespace="http://www.w3.org/2004/08/wsdl-instance" pre=""></import></pre>							
416 schemaLocation="wsdli.xsd" />								
417	<pre><import <="" namespace="http://www.w3.org/2004/12/addressing" pre=""></import></pre>							
418	<pre>schemaLocation="ws-addr.xsd" /></pre>							
419	<pre><include schemalocation="sca-core.xsd"></include></pre>							
420								
421	<pre><element <="" name="binding.ws" pre="" type="sca:WebServiceBinding"></element></pre>							
422	substitutionGroup="sca:binding"/>							
423	<complextype name="WebServiceBinding"></complextype>							
424	<complexcontent></complexcontent>							
425	<pre><extension base="sca:Binding"></extension></pre>							
426	<sequence></sequence>							
427	<pre><element <="" minoccurs="0" pre="" ref="wsa:EndpointReference"></element></pre>							
428	maxOccurs="unbounded"/>							
429	<pre><any <="" namespace="##other" pre="" processcontents="lax"></any></pre>							
	minOccurs="0"							
431	maxOccurs="unbounded"/>							
432								
433	<attribute name="wsdlElement" type="anyURI" use="optional"></attribute>							
434	<attribute ref="wsdli:wsdlLocation" use="optional"></attribute>							
435	<anyattribute namespace="##any" processcontents="lax"></anyattribute>							
436								
437								
438								
439								

441 **B. Acknowledgements**

442 The following individuals have participated in the creation of this specification and are gratefully443 acknowledged:

- 444 **Participants:**
- 445 [Participant Name, Affiliation | Individual Member]
- 446 [Participant Name, Affiliation | Individual Member]
- 447

448 C. Non-Normative Text

D. Revision History

450 [optional; should not be included in OASIS Standards	450	[optional; should not be included in OASIS Standards]
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Revision	Date	Editor	Changes Made
1	2007-09-25	Anish Karmarkar	Applied the OASIS template + related changes to the Submission