

Test Assertions for the SCA Web Service Binding Version 1.1 Specification

Committee Draft 01 / Public Review 01

1 July 2010

Specification URIs:

This Version:

http://docs.oasis-open.org/opencsa/sca-bindings/sca-wsbinding-1.1-test-assertions-cd01.html http://docs.oasis-open.org/opencsa/sca-bindings/sca-wsbinding-1.1-test-assertions-cd01.odt http://docs.oasis-open.org/opencsa/sca-bindings/sca-wsbinding-1.1-test-assertions-cd01.pdf (Authoritative)

Previous Version:

N/A

Latest Version:

http://docs.oasis-open.org/opencsa/sca-bindings/sca-wsbinding-1.1-test-assertions.html http://docs.oasis-open.org/opencsa/sca-bindings/sca-wsbinding-1.1-test-assertions.odt http://docs.oasis-open.org/opencsa/sca-bindings/sca-wsbinding-1.1-test-assertions.pdf (Authoritative)

Technical Committee:

OASIS Service Component Architecture / Bindings (SCA-Bindings) TC http://www.oasis-open.org/committees/tc home.php?wg abbrev=sca-bindings

Chair(s):

Simon Holdsworth, IBM

Editor(s):

Anish Karmarkar, Oracle Mike Edwards, IBM

Related Work:

This specification is related to:

 Service Component Architecture Web Service Binding Specification Version 1.1 http://docs.oasis-open.org/opencsa/sca-bindings/sca-wsbinding-1.1-spec-cd04.pdf

Declared XML Namespace(s):

None

Abstract:

This document defines the Test Assertions for the SCA Web Service Binding specification.

The Test Assertions represent the testable items relating to the normative statements made in the SCA Assembly specification. The Test Assertions provide a bridge between the normative statements in the specification and the conformance TestCases which are designed to check that an SCA runtime conforms to the requirements of the specification.

Status:

This document was last revised or approved by the OASIS Service Component Architecture / Bindings (SCA-Bindings) TC on the above date. The level of approval is also listed above. Check the "Latest Version" or "Latest Approved Version" location noted above for possible later revisions of this document.

Technical Committee members should send comments on this specification to the Technical Committee's email list. Others should send comments to the Technical Committee by using the "Send A Comment" button on the Technical Committee's web page at http://www.oasis-open.org/committees/sca-bindings/.

For information on whether any patents have been disclosed that may be essential to implementing this specification, and any offers of patent licensing terms, please refer to the Intellectual Property Rights section of the Technical Committee web page (http://www.oasisopen.org/committees/sca-bindings/ipr.php).

The non-normative errata page for this specification is located at http://www.oasis-open.org/committees/sca-bindings/.

Notices

Copyright © OASIS® 2009, 2010. All Rights Reserved.

All capitalized terms in the following text have the meanings assigned to them in the OASIS Intellectual operty Rights Policy (the "OASIS IPR Policy"). The full Policy may be found at the OASIS website.

This document and translations of it may be copied and furnished to others, and derivative works that comment on or otherwise explain it or assist in its implementation may be prepared, copied, published, and distributed, in whole or in part, without restriction of any kind, provided that the above copyright notice and this section are included on all such copies and derivative works. However, this document itself may not be modified in any way, including by removing the copyright notice or references to OASIS, except as needed for the purpose of developing any document or deliverable produced by an OASIS Technical Committee (in which case the rules applicable to copyrights, as set forth in the OASIS IPR Policy, must be followed) or as required to translate it into languages other than English.

The limited permissions granted above are perpetual and will not be revoked by OASIS or its successors or assigns.

This document and the information contained herein is provided on an "AS IS" basis and OASIS DISCLAIMS ALL WARRANTIES, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO ANY WARRANTY THAT THE USE OF THE INFORMATION HEREIN WILL NOT INFRINGE ANY OWNERSHIP RIGHTS OR ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

OASIS requests that any OASIS Party or any other party that believes it has patent claims that would necessarily be infringed by implementations of this OASIS Committee Specification or OASIS Standard, to notify OASIS TC Administrator and provide an indication of its willingness to grant patent licenses to such patent claims in a manner consistent with the IPR Mode of the OASIS Technical Committee that produced this specification.

OASIS invites any party to contact the OASIS TC Administrator if it is aware of a claim of ownership of any patent claims that would necessarily be infringed by implementations of this specification by a patent holder that is not willing to provide a license to such patent claims in a manner consistent with the IPR Mode of the OASIS Technical Committee that produced this specification. OASIS may include such claims on its website, but disclaims any obligation to do so.

OASIS takes no position regarding the validity or scope of any intellectual property or other rights that might be claimed to pertain to the implementation or use of the technology described in this document or the extent to which any license under such rights might or might not be available; neither does it represent that it has made any effort to identify any such rights. Information on OASIS' procedures with respect to rights in any document or deliverable produced by an OASIS Technical Committee can be found on the OASIS website. Copies of claims of rights made available for publication and any assurances of licenses to be made available, or the result of an attempt made to obtain a general license or permission for the use of such proprietary rights by implementers or users of this OASIS Committee Specification or OASIS Standard, can be obtained from the OASIS TC Administrator. OASIS makes no representation that any information or list of intellectual property rights will at any time be complete, or that any claims in such list are, in fact, Essential Claims.

The names "OASIS", "SCA", and "Service Component Architecture" are trademarks of OASIS, the owner and developer of this specification, and should be used only to refer to the organization and its official outputs. OASIS welcomes reference to, and implementation and use of, specifications, while reserving the right to enforce its marks against misleading uses. Please see http://www.oasis-open.org/who/trademark.php for above guidance.

Table of Contents

1 Introduction	5
1.1 Example Test Assertion	5
1.2 Terminology	5
1.3 Normative References	6
2 Test Assertions	7
2.1 Section 2 Test Assertions	7
2.2 Section 4 Test Assertions	17
2.3 Section 5 Test Assertions	19
3 Cross Mapping of Conformance Statements to Assertions	23
4 Conformance	25
Appendix A.Acknowledgments	26
Appendix B.Revision History	27

1 Introduction

- This document defines the Test Assertions for the SCA Web Service Binding Specification Version 1.1 2
- [SCA-WSBinding]. 3
- The test assertions in this document follow the format defined in the OASIS Test Assertion Guidelines 4
- specification ITA-GUIDE1.

1.1 Example Test Assertion

Test assertions are presented in a tabular format with rows corresponding to the entry types defined in 7 [TA-GUIDE]. 8

6

Assertion ID	BWS-TA-xxxx
Source	[BWSyyyyy]
Target	<kitchensink></kitchensink> element of composite file
Prerequisites	The <kitchensink></kitchensink> element has a @drain attribute
Predicate	The @drain attribute value of the <kitchensink></kitchensink> element is a URI that identifies a portal into the sewage system of the Domain.
Prescription Level	Mandatory
Tags	kitchenSink drain sewage

10

- Assertion ID: Is a unique ID for the test assertion. Its format starts with a 3 letter string that identifies the 11
- specification to which it relates "BWS" is for the SCA Web Service Binding specification. This is followed 12
- by "-TA-" to indicate that this identifier is for a test assertion. This is then followed by a unique 4 digit 13
- number. 14
- Source: Is the identifier(s) of the normative statement(s) in the specification to which this assertion 15
- 16
- Target: Identifies the target which is addressed by this assertion. This is typically some SCA document 17
- element, or other SCA artifact but possibly could identify an SCA runtime and its behaviour. 18
- Prerequisites: Defines any prerquisites for this test assertion. The prerequisites may be defined in terms 19
- of one or more other test assertions that must be true. 20
- Predicate: The meat of the assertion something that should evaluate to true or false for the given target. 21
- Prescription Level: Mandatory (for MUST requirements) or Preferred (for SHOULD requirements) or 22
- Permitted (for MAY requirements). 23
- Tags: Zero or more labels that may be attached to this test assertion these tags can be used to group 24
- sets of assertions. 25

26

1.2 Terminology

- The keywords "MUST", "MUST NOT", "REQUIRED", "SHALL", "SHALL NOT", "SHOULD", "SHOULD NOT", "RECOMMENDED", "MAY", and "OPTIONAL" in this specification are to be interpreted as 27
- 28
- described in IETF RFC 2119 [RFC 2119]. 29

1.3 Normative References

31 32 33	[RFC 2119]	S. Bradner. Key words for use in RFCs to Indicate Requirement Levels. IETF RFC 2119, March 1997. http://www.ietf.org/rfc/rfc2119.txt.
34 35 36	[TA-GUIDE]	OASIS Committee Draft 04, <i>Test Assertion Guidelines</i> , February 2010. http://docs.oasis-open.org/tag/guidelines/v1.0/cd04/testassertionsguidelines-cd-04.pdf
37 38	[SCA-WSBinding]	OASIS Committee Draft 04, "Service Component Architecture Web Service Binding Specification Version 1.1," May 2010.
39 40		http://docs.oasis-open.org/opencsa/sca-bindings/sca-wsbinding-1.1-spec-cd04.pdf

2 Test Assertions

2.1 Section 2 Test Assertions

Assertion ID	BWS-TA-20001
Source	[BWS20001]
Target	The reference/binding.ws/@uri attribute
Prerequisites	
Predicate	The value of the attribute is an absolute value
Prescription Level	Mandatory
Tags	"uri attribute" "reference target"

Assertion ID	BWS-TA-20002
Source	[BWS20002]
Target	The binding.ws/@wsdlElement attribute
Prerequisites	
Predicate	The value of the attribute points to an existing WSDL 1.1 element
Prescription Level	Mandatory
Tags	"wsdlElement"

Assertion ID	BWS-TA-20003
Source	[BWS20003]
Target	The service/binding.ws/@wsdlEelement attribute
Prerequisites	
Predicate	The value of the attribute is not of the form <wsdl-namespace-uri>#wsdl.service(<service-name>)</service-name></wsdl-namespace-uri>
Prescription Level	Mandatory
Tags	"wsdlElement"

Assertion ID	BWS-TA-20004
Source	[BWS20004]
Target	The reference/binding.ws/@wsdlElement attribute

Prerequisites	The value of the attribute is of the form <wsdl-namespace-uri>#wsdl.service(<service-name>)</service-name></wsdl-namespace-uri>
Predicate	The set of available ports for that reference-binding is non-empty
Prescription Level	Mandatory
Tags	"wsdlElement" "reference target" "port"
Comment	Awkward wording. Plus the set of available ports is for the reference binding not just the reference.

Assertion ID	BWS-TA-20005
Source	[BWS20005]
Target	SCA runtime
Prerequisites	The value of the attribute reference/binding.ws/@wsdlElement is of the form <wsdl-namespace-uri>#wsdl.service(<service-name>) and SCA runtime does not support any of the available ports</service-name></wsdl-namespace-uri>
Predicate	The SCA runtime raises an error
Prescription Level	Mandatory
Tags	"wsdlElement" "reference target" "error"

Assertion ID	BWS-TA-20006
Source	[BWS20006]
Target	SCA runtime
Prerequisites	The value of the attribute reference/binding.ws/@wsdlElement is of the form <wsdl-namespace-uri>#wsdl.service(<service-name>) and the number of available ports is more than one</service-name></wsdl-namespace-uri>
Predicate	The SCA runtime uses exactly one port for each invocation
Prescription Level	Mandatory
Tags	"wsdlElement" "reference target"
Comment	Untestable?

Assertion ID	BWS-TA-20007
Source	[BWS20007]
Target	The service/binding.ws/@wsdlElement attribute
Prerequisites	The value of the attribute is of the form <wsdl-namespace-uri>#wsdl.port(<service-name>/<port-name>)</port-name></service-name></wsdl-namespace-uri>
Predicate	The portType associated with the port is compatible with the service interface and satisfies all the policy constraints of the binding

Prescription Level	Mandatory
Tags	"wsdlElement"
Comment	Would require multiple tests

Assertion ID	BWS-TA-20008
Source	[BWS20008]
Target	SCA runtime
Prerequisites	The value of the attribute service/binding.ws/@wsdlElement is of the form <wsdl-namespace-uri>#wsdl.port(<service-name>/<port-name>)</port-name></service-name></wsdl-namespace-uri>
Predicate	The SCA runtime exposes the endpoint specified by the WSDL port or raises an error if the port is not supported
Prescription Level	Mandatory
Tags	"wsdlElement"

Assertion ID	BWS-TA-20009
Source	[BWS20009]
Target	The reference/binding.ws/@wsdlElement attribute
Prerequisites	The value of the attribute is of the form <wsdl-namespace-uri>#wsdl.port(<service-name>/<port-name>)</port-name></service-name></wsdl-namespace-uri>
Predicate	The portType associated with the port is compatible superset of the reference interface and satisfies all the policy constraints of the binding
Prescription Level	Mandatory
Tags	"wsdlElement"
Comment	Would require multiple tests

Assertion ID	BWS-TA-20010
Source	[BWS20010]
Target	SCA runtime
Prerequisites	The value of the attribute reference/binding.ws/@wsdlElement is of the form <wsdl-namespace-uri>#wsdl.port(<service-name>/<port-name>)</port-name></service-name></wsdl-namespace-uri>
Predicate	The SCA runtime uses the endpoint specified by the WSDL port for invocations or raises an error if the port is not supported
Prescription Level	Mandatory
Tags	"wsdlElement"

Comment	Looks incorrect, what if there is an alternate binding specified?

Assertion ID	BWS-TA-20011
Source	[BWS20011]
Target	The service/binding.ws/@wsdlElement attribute
Prerequisites	The value of the attribute is of the form <wsdl-namespace-uri>#wsdl.binding(<binding-name>)</binding-name></wsdl-namespace-uri>
Predicate	The portType associated with the WSDL binding is compatible with the service interface and satisfies all the policy constraints of the binding
Prescription Level	Mandatory
Tags	"wsdlElement"
Comment	Would require multiple tests

Assertion ID	BWS-TA-20012
Source	[BWS20012]
Target	SCA runtime
Prerequisites	The value of the attribute service/binding.ws/@wsdlElement is of the form <wsdl-namespace-uri>#wsdl.binding(vbinding-name>)</wsdl-namespace-uri>
Predicate	The SCA runtime exposes an endpoint using the specified WSDL binding or raises an error if the WSDL binding is not supported
Prescription Level	Mandatory
Tags	"wsdlElement"

Assertion ID	BWS-TA-20013
Source	[BWS20013]
Target	The reference/binding.ws/@wsdlElement attribute
Prerequisites	The value of the attribute is of the form <wsdl-namespace-uri>#wsdl.binding(<binding-name>)</binding-name></wsdl-namespace-uri>
Predicate	The portType associated with the WSDL binding is compatible superset of the reference interface and satisfies all the policy constraints of the binding
Prescription Level	Mandatory
Tags	"wsdlElement"
Comment	Would require multiple tests

Assertion ID	BWS-TA-20014
Source	[BWS20014]
Target	SCA runtime
Prerequisites	The value of the attribute reference/binding.ws/@wsdlElement is of the form <wsdl-namespace-uri>#wsdl.binding(<binding-name>)</binding-name></wsdl-namespace-uri>
Predicate	The SCA runtime uses the WSDL binding specified for reference invocations or raises an error if the WSDL binding is not supported
Prescription Level	Mandatory
Tags	"wsdlElement"
Comment	Looks incorrect, what if there is an alternate binding specified?

Assertion ID	BWS-TA-20015
Source	[BWS20015]
Target	The reference/binding.ws/@wsdlElement attribute
Prerequisites	The value of the attribute is of the form <wsdl-namespace-uri>#wsdl.binding(<binding-name>)</binding-name></wsdl-namespace-uri>
Predicate	The endpoint address is either specified by the reference/binding.ws/@uri attribute, or the reference/binding.ws/EndpointReference element, except for the cases where the SCA Assembly specification allows the @uri attribute to be omitted
Prescription Level	Mandatory
Tags	"wsdlElement"
Comment	The predicate should be exampled to include the exception cases. Would require multiple tests (positive and negative)

Assertion ID	BWS-TA-20016
Source	[BWS20017]
Target	The binding.ws element
Prerequisites	The attribute wsdli:wsdlLocation attribute is present
Predicate	The attribute wsdlElement is also present on the same binding.ws element
Prescription Level	Mandatory
Tags	"wsdlElement" "wsdlLocation"

Assertion ID	BWS-TA-20017
Source	[BWS20018]

Target	The binding.ws/@wsdli:wsdlLocation attribute
Prerequisites	
Predicate	The attribute value points to an existing WSDL 1.1 document
Prescription Level	Mandatory
Tags	"wsdlLocation"
Comment	Minor quibble: why is 'existing' needed here?
	Also it should say something more: it shouldn't just point to any WSDL 1.1 doc, but a doc that contain artifacts related to the element pointed to by the wsdlElement attr

Assertion ID	BWS-TA-20018
Source	[BWS20019]
Target	The binding.ws element
Prerequisites	
Predicate	The uri attribute, the endpointReference element and the wsdlElement attribute referring to a WSDL port or service are mutually exclusive
Prescription Level	Mandatory
Tags	"wsdlElement" "uri" "endpoint reference"

Assertion ID	BWS-TA-20019
Source	[BWS20020]
Target	The service/callback/binding.ws element
Prerequisites	
Predicate	The uri attribute or endpointReference element are absent
Prescription Level	Mandatory
Tags	"callback" "uri" "endpoint reference"

Assertion ID	BWS-TA-20020
Source	[BWS20021]
Target	SCA runtime
Prerequisites	
Predicate	All attributes of binding.ws, i.e., name, uri, requires, policSets, wsdlElement, wsdli:wsdlLocation are supported
Prescription	Mandatory

Level	
Tags	"wsdlElement" "uri" "requires" "policySets" "name" "wsdlLocation"

Assertion ID	BWS-TA-20021
Source	[BWS20022]
Target	SCA runtime
Prerequisites	
Predicate	binding.ws/endpointReference element is supported
Prescription Level	Preferred
Tags	"endpointReference" "SCA runtime"

Assertion ID	BWS-TA-20022
Source	[BWS20023]
Target	SCA runtime
Prerequisites	SCA runtime does not support binding.ws/endpointReference element
Predicate	Rejects any conformant SCA WS Binding XML document that contains binding.ws/endpointReference element
Prescription Level	Mandatory
Tags	"endpointReference" "SCA runtime"

Assertion ID	BWS-TA-20023
Source	[BWS20024]
Target	binding.ws element
Prerequisites	
Predicate	Conforms to the schema defined in sca-binding-webservice-1.1.xsd
Prescription Level	Mandatory
Tags	"schema"

Assertion ID	BWS-TA-20024
Source	[BWS20025]
Target	<pre><binding.ws></binding.ws> subelement of a component <reference> element</reference></pre>
Prerequisites	binding.ws does not contain a target address

Predicate	SCA runtime raises an error
Prescription Level	Mandatory
Tags	"target address" "SCA runtime"

Assertion ID	BWS-TA-20025
Source	[BWS20026]
Target	<pre><binding.ws></binding.ws> subelemement of a component <reference></reference></pre>
Prerequisites	The binding.ws element has a valid target specified by one of the mechanisms defined in the specification section "Endpoint URI resolution"
Predicate	The target address is used by the runtime when the component implementation invokes an operation of the reference
Prescription Level	Mandatory
Tags	"target address"

Assertion ID	BWS-TA-20026
Source	[BWS20027]
Target	SCA runtime
Prerequisites	binding.ws is used on a service or a reference that has an interface which is not defined using interface.wsdl
Predicate	A WSDL portType is derived for the service or the reference using the mapping rules defined for that interface type
Prescription Level	Mandatory
Tags	"sca runtime" "interface mapping"
Comment	s/rules/WSDL-mapping rules/

Assertion ID	BWS-TA-20027
Source	[BWS20028]
Target	SCA runtime
Prerequisites	binding.ws is used on a service or a reference that has an interface which is not defined using interface.wsdl
Predicate	An error is raised if the interface used cannot be mapped to a WSDL portType
Prescription Level	Mandatory
Tags	"sca runtime" "interface mapping"

Assertion ID	BWS-TA-20028
Source	[BWS20029]
Target	A service that uses binding.ws with an HTTP endpoint is hosted by the SCA runtime
Prerequisites	
Predicate	The service returns a WSDL description of itself in response to an HTTP GET request with the "?wsdl" suffix added to the service endpoint URL
Prescription Level	Preferred
Tags	"sca runtime" "HTTP GET" "WSDL description"
Comment	

Assertion ID	BWS-TA-20029
Source	[BWS20030]
Target	A service that uses one of more instances of binding.ws but none of them have HTTP endpoints
Prerequisites	
Predicate	The SCA runtime provides some means for obtaining the WSDL description of the service
Prescription Level	Preferred
Tags	"sca runtime" "WSDL description"

Assertion ID	BWS-TA-20030
Source	[BWS20032]
Target	<binding.ws></binding.ws> element which references a WSDL document by means of its @wsdlElement attribute
Prerequisites	The referenced WSDL document contains one or more of the extensions defined in the SCA namespace "http://docs.oasis-open.org/ns/opencsa/sca/200912" as defined in the SCA Assembly specification
Predicate	The SCA runtime supports the SCA WSDL extensions contained in the WSDL document
Prescription Level	Mandatory
Tags	"sca runtime" "WSDL extension"

Assertion ID	BWS-TA-20031
Source	[BWS20033]
Target	<binding.ws></binding.ws> element which references a Binding in a WSDL document by means of its @wsdlElement attribute
Prerequisites	The WSDL Binding element uses the SOAP 1.1 over HTTP binding, using a wsoap11:binding that has the @transport attribute with a value of "http://schemas.xmlsoap.org/soap/http"
Predicate	The binding.ws element is supported by the SCA runtime and it is possible to invoke a service operation successfully through the reference or service which uses the binding.ws element.
Prescription Level	Mandatory
Tags	"sca runtime" "WSDL extension" "SOAP 1.1"

Assertion ID	BWS-TA-20032
Source	[BWS20034]
Target	<binding.ws></binding.ws> element which references a Binding in a WSDL document by means of its @wsdlElement attribute
Prerequisites	The WSDL Binding element uses the SOAP 1.2 over HTTP binding, using a wsoap12:binding that has the @transport attribute with a value of "http://schemas.xmlsoap.org/soap/http"
Predicate	The binding.ws element is supported by the SCA runtime and it is possible to invoke a service operation successfully through the reference or service which uses the binding.ws element.
Prescription Level	Preferred
Tags	"sca runtime" "WSDL extension" "SOAP 1.2"

Assertion ID	BWS-TA-20033
Source	[BWS20035]
Target	<bindingtype> element associated with binding.ws</bindingtype>
Prerequisites	
Predicate	The <bindingtype> element associated with binding.ws includes the SOAP.v1_1 intent in its @mayProvides or @alwaysProvides attributes</bindingtype>
Prescription Level	Mandatory
Tags	"SOAP 1.1" "bindingType" "intent" "mayProvides" "alwaysProvides"
Comment	

Assertion ID	BWS-TA-20034
--------------	--------------

Source	[BWS20036]
Target	<bindingtype> element associated with binding.ws</bindingtype>
Prerequisites	
Predicate	The <bindingtype> element associated with binding.ws includes the SOAP.v1_2 intent in its @mayProvides attribute</bindingtype>
Prescription Level	Preferred
Tags	"SOAP 1.2" "bindingType" "intent" "mayProvides"
Comment	

Assertion ID	BWS-TA-20035
Source	[BWS20037]
Target	<binding.ws></binding.ws> element configured with a policy intent
Prerequisites	The policy intent conflicts with the configuration of the <binding.ws></binding.ws> element
Predicate	SCA runtime raises an error
Prescription Level	Mandatory
Tags	"SCA runtime" "intent"

2.2 Section 4 Test Assertions

Assertion ID	BWS-TA-40001
Source	[BWS40001]
Target	Component <service></service> or <reference></reference> with a <binding.ws></binding.ws> subelement
Prerequisites	SOAP intent is applied to the <binding.ws></binding.ws> element
Predicate	The <service></service> or <reference></reference> transmits and receives messages using one or more versions of SOAP
Prescription Level	Mandatory
Tags	"SCA runtime" "intent" "SOAP"

Assertion ID	BWS-TA-40002
Source	[BWS40002]
Target	SCA runtime
Prerequisites	SOAP.v1_1 intent is required
Predicate	The SCA runtime transmits and receives messages using only SOAP 1.1

Prescription Level	Mandatory
Tags	"SCA runtime" "intent" "SOAP"

Assertion ID	BWS-TA-40003
Source	[BWS40003]
Target	SCA runtime
Prerequisites	SOAP.v1_2 intent is required
Predicate	The SCA runtime transmits and receives messages using only SOAP 1.2
Prescription Level	Mandatory
Tags	"SCA runtime" "intent" "SOAP"

Assertion ID	BWS-TA-40004
Source	[BWS40004]
Target	portType of an SCA component <service></service> or <reference></reference> element
Prerequisites	portType is either explicitly specified or is derived from the interface specified for the service or reference
Predicate	The portType follows either the rpc-literal pattern or the document-literal pattern
Prescription Level	Mandatory
Tags	"SCA runtime" "intent" "SOAP"
Comment	

Assertion ID	BWS-TA-40005
Source	[BWS40005]
Target	SCA runtime
Prerequisites	The transport details are not otherwise determined
Predicate	The default transport binding rules are used
Prescription Level	Mandatory
Tags	"SCA runtime" "default transport binding rules"
Comment	The precondition is vague. What does 'not otherwise determined' mean? Shouldn't we enumerate when this happens?

Assertion ID	BWS-TA-40007
Source	[BWS40007]
Target	SCA runtime
Prerequisites	Default transport binding rules are used along with rpc-literal pattern
Predicate	SCA runtime uses the structural URI associated with the binding as the namespace of the child elements of the SOAP body element
Prescription Level	Preferred
Tags	"SCA runtime" "default transport binding rules" "rpc-literal"

2.3 Section 5 Test Assertions

Assertion ID	BWS-TA-50001
Source	[BWS50002]
Target	Web service request message sent to a Web service endpoint
Prerequisites	a) Web service endpoint has an interface with an associated callback (ie. it is bidirectional)
	b) SCA Web Services Callback Protocol is used
Predicate	Request message contains a Callback EPR, either in the wsa:From SOAP header block or in the wsa:ReplyTo SOAP header block
Prescription Level	Mandatory
Tags	"SCA runtime" "SCA Web Services Callback Protocol"

Assertion ID	BWS-TA-50002
Source	[BWS50004]
Target	SCA bidirectional service using the binding.ws binding with the SCA Web Services Callback Protocol
Prerequisites	The service receives an operation invocation of the service where the Callback EPR's address value is "http://www.w3.org/2005/08/addressing/anonymous" or "http://www.w3.org/2005/08/addressing/none"
Predicate	An Invalid Addressing Header fault is generated as specified in Section 6.4.1 of WS-Addressing 1.0 SOAP Binding
Prescription Level	Mandatory
Tags	"SCA runtime" "SCA Web Services Callback Protocol" "callback EPR"

Assertion ID	BWS-TA-50003
Source	[BWS50005]
Target	SCA runtime
Prerequisites	The callback interface is invoked using the SCA Web Services Callback Protocol
Predicate	The Callback EPR from a request message that invoked the forward interface is used to invoke the callback interface
Prescription Level	Mandatory
Tags	"SCA runtime" "SCA Web Services Callback Protocol" "callback EPR"

Assertion ID	BWS-TA-50004
Source	[BWS50006]
Target	SCA runtime
Prerequisites	The Callback EPR is selected to invoke the callback interface
Predicate	The rules defined in Section 3.3 of WS-Addressing 1.0 – Core are followed to invoke operations on the callback interface using the Callback EPR
Prescription Level	Mandatory
Tags	"SCA runtime" "SCA Web Services Callback Protocol" "callback EPR"

Assertion ID	BWS-TA-50005
Source	[BWS50007]
Target	SCA runtime
Prerequisites	The request message from which the Callback EPR was obtained contained the wsa:MessageID SOAP header block
Predicate	The callback message contains the wsa:RelatesTo SOAP header block
Prescription Level	Mandatory
Tags	"SCA runtime" "SCA Web Services Callback Protocol" "callback EPR"

Assertion ID	BWS-TA-50006
Source	[BWS50008]
Target	SCA runtime
Prerequisites	The request message from which the Callback EPR was obtained contained the wsa:MessageID SOAP header block
Predicate	The wsa:RelatesTo SOAP header block in the callback message has the relationship type value of "http://docs.oasis-open.org/opencsa/sca-

	bindings/ws/callback" and the related message id is the wsa:MessageID of the message from which the Callback EPR was obtained
Prescription Level	Mandatory
Tags	"SCA runtime" "SCA Web Services Callback Protocol" "callback EPR"

Assertion ID	BWS-TA-50007
Source	[BWS50009]
Target	SCA runtime
Prerequisites	The request message from which the Callback EPR was obtained does not contain the wsa:MessageID SOAP header block
Predicate	The callback message does not contain the wsa:RelatesTo SOAP header block with a relationship type value of "http://docs.oasis-open.org/opencsa/sca-bindings/ws/callback"
Prescription Level	Mandatory
Tags	"SCA runtime" "SCA Web Services Callback Protocol" "callback EPR"

Assertion ID	BWS-TA-50008	
Source	[BWS50010]	
Target	SCA runtime	
Prerequisites	WSCallback policy assertion is present in the effective policy of a service/binding or a reference/binding	
Predicate	The SCA Web Services Callback Protocol is used to invoke callbacks for that binding	
Prescription Level	Mandatory	
Tags	"SCA runtime" "SCA Web Services Callback Protocol" "WSCallback policy assertion"	

Assertion ID	BWS-TA-50009
Source	[BWS50013]
Target	WSDL document (?)
Prerequisites	
Predicate	The wsdl:portType that is used does not have WSCallback policy assertion attached
Prescription Level	Mandatory
Tags	"WSCallback policy assertion"

Comment	We haven't defined WSDL document as the target. Is the appropriate		
	target the composite/CT document that points to such a WSDL?		

Assertion ID	BWS-TA-50010	
Source	[BWS50014]	
Target	?	
Prerequisites	Policy contains WSCallback policy assertion	
Predicate	The policy or the assertion is signed	
Prescription Level	Preferred	
Tags	"WSCallback policy assertion"	
Comment	Policies can be inlined or attached. Which target should be used: WSDL doc, policy attachments, composites/CT/impl code, all of them?	

Assertion ID	BWS-TA-50011	
Source	[BWS50015]	
Target	SCA runtime	
Prerequisites	Policy contains WSCallback policy assertion which is either not signed or does not have an associated security token to specify that the signer has the proper claims for the policy	
Predicate	The policy is rejected	
Prescription Level	Preferred	
Tags	"WSCallback policy assertion"	

3 Cross Mapping of Conformance Statements to Assertions

153

152

Conformance statement	Test Assertion
BWS20001	BWS-TA-20001
BWS20002	BWS-TA-20002
BWS20003	BWS-TA-20003
BWS20004	BWS-TA-20004
BWS20005	BWS-TA-20005
BWS20006	BWS-TA-20006
BWS20007	BWS-TA-20007
BWS20008	BWS-TA-20008
BWS20009	BWS-TA-20009
BWS20010	BWS-TA-20010
BWS20011	BWS-TA-20011
BWS20012	BWS-TA-20012
BWS20013	BWS-TA-20013
BWS20014	BWS-TA-20014
BWS20015	BWS-TA-20015
BWS20017	BWS-TA-20016
BWS20018	BWS-TA-20017
BWS20019	BWS-TA-20018
BWS20020	BWS-TA-20019
BWS20021	BWS-TA-20020
BWS20022	BWS-TA-20021
BWS20023	BWS-TA-20022
BWS20024	BWS-TA-20023
BWS20025	BWS-TA-20024
BWS20026	BWS-TA-20025
BWS20027	BWS-TA-20026
BWS20028	BWS-TA-20027
BWS20029	BWS-TA-20028
BWS20030	BWS-TA-20029
BWS20032	BWS-TA-20030
BWS20033	BWS-TA-20031
BWS20034	BWS-TA-20032
BWS20035	BWS-TA-20033
BWS20036	BWS-TA-20034
BWS20037	BWS-TA-20035

Conformance statement	Test Assertion
BWS40001	BWS-TA-40001
BWS40002	BWS-TA-40002
BWS40003	BWS-TA-40003
BWS40004	BWS-TA-40004
BWS40005	BWS-TA-40005
BWS40007	BWS-TA-40007

Conformance statement	Test Assertion
BWS50002	BWS-TA-50001
BWS50004	BWS-TA-50002
BWS50005	BWS-TA-50003
BWS50006	BWS-TA-50004
BWS50007	BWS-TA-50005
BWS50008	BWS-TA-50006
BWS50009	BWS-TA-50007
BWS50010	BWS-TA-50008
BWS50013	BWS-TA-50009
BWS50014	BWS-TA-50010
BWS50015	BWS-TA-50011

4 Conformance

157 There are no conformance statements relating to the Test Assertions.

158

Appendix A. Acknowledgments

- The following individuals have participated in the creation of this specification and are gratefully
- 161 acknowledged

- 162 Participants:
- Mike Edwards, IBM
- Anish Karmarkar, Oracle

Appendix B. Revision History

166

165

Revision	Date	Editor	Changes Made
wd01	09/09/09	Anish Karmarkar	Created the initial draft with the first 15 assertions
wd02	07/10/09	Anish Karmarkar	Included all the assertions and mappings
wd03	22/03/10	Anish Karmarkar	Synched up with cd03-rev2 + misc ed changes
wd04	07/06/10	Mike Edwards	Updated text for TAs:
			20023, 20024, 20025, 20028, 20029, 20030, 20031, 20032, 20033, 20034, 20035, 40001, 40004, 50001, 50002
wd05	14/06/10	Mike Edwards	Formatting corrections
cd01	01/07/10	Mike Edwards	All changes accepted
			Frontmatter corrected to OASIS requirements

167