



Service Component Architecture Client and Implementation Model for C Test Assertions Version 1.1

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Abstract:

This document defines the Test Assertions for the SCA C Client and Implementation Model specification.

The Test Assertions represent the testable items relating to the normative statements made in the SCA C Client and Implementation Model 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 Service Component Architecture / C and C++ 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.

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1 Introduction

This document defines the Test Assertions for the SCA Client and Implementation Model for C Specification Version 1.1 [SCA-C].
The test assertions in this document follow the format defined in the OASIS Test Assertion Guidelines specification [TAG].

1.1 Example Test Assertion

Test assertions are presented in a tabular format with rows corresponding to the entry types defined in [TAG].

Assertion ID	C-TA-xxxx
Source	[Cx00yy]
Target	<kitchenSink/> element of composite file
Prerequisites	The <kitchenSink/> element has a @drain attribute
Predicate	The @drain attribute value of the <kitchenSink/> element is a URI that identifies a portal into the drainage system of the Domain.
Prescription Level	Mandatory
Tags	"kitchenSink" "drain" "Domain"

Assertion ID: Is a unique ID for the test assertion. Its format starts with a 3 letter string that identifies the specification to which it relates - "C" is for the SCA C Client and Implementation Model specification. This is followed by "-TA-" to indicate that this identifier is for a test assertion. This is then followed by a unique 4 digit number.

Source: Is the identifier(s) of the normative statement(s) in the specification to which this assertion relates.

Target: Identifies the target which is addressed by this assertion. This is typically some SCA document element, or other SCA artifact but possibly could identify an SCA implementation and its behavior.

Prerequisites: Defines any prerequisites for this test assertion. The prerequisites may be defined in terms of one or more other test assertions that must be true.

Predicate: The meat of the assertion - something that should evaluate to true or false for the given target.

Prescription Level: Mandatory (for MUST requirements) or Preferred (for SHOULD requirements) or Permitted (for MAY requirements).

Tags: Zero or more labels that may be attached to this test assertion - these tags can be used to group sets of assertions.

1.2 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].

30 1.3 Normative References

- 31 **[RFC2119]** S. Bradner, *Key words for use in RFCs to Indicate Requirement Levels*,
32 <http://www.ietf.org/rfc/rfc2119.txt>, IETF RFC 2119, March 1997.
- 33 **[SCA-C]** OASIS Committee Draft 05, *Service Component Architecture Client and*
34 *Implementation Model for C Specification Version 1.1*, March 2010.
35 <http://docs.oasis-open.org/opencsa/sca-c-cpp/sca-ccni-1.1-spec-cd05.pdf>
- 36 **[TAG]** OASIS Committee Draft 04, *Test Assertion Guidelines*, February 2010.
37 [http://docs.oasis-open.org/tag/guidelines/v1.0/cd04/testassertionsguidelines-cd-](http://docs.oasis-open.org/tag/guidelines/v1.0/cd04/testassertionsguidelines-cd-04.pdf)
38 [04.pdf](http://docs.oasis-open.org/tag/guidelines/v1.0/cd04/testassertionsguidelines-cd-04.pdf)

39 2 Test Assertions

40 2.1 Section 2

Assertion ID	C-TA-2001
Source	[C20001]
Target	<implementation.c/> of <component/>
Prerequisites	<component/> declares at least one <service/>
Predicate	Each operation of each <service/> declared by the <component/> is implemented by the <implementation.c>
Prescription Level	Mandatory
Tags	"implementation.c"

41

Assertion ID	C-TA-2003
Source	[C20004]
Target	@init or @destroy attribute of a <function/> of an <implementation.c/>
Prerequisites	Either the @init or the @destroy attribute of a <function/> element of an <implementation.c/> has a value of true.
Predicate	The function identified by the @name attribute of the <function/> element has no parameters and a return type of void.
Prescription Level	Mandatory
Tags	"implementation.c" "lifecycle functions"

42

Assertion ID	C-TA-2006
Source	[C20015]
Target	<implementation.c/> of a <component/>
Prerequisites	
Predicate	Multiple execution threads can simultaneously use an implementation instance.
Prescription Level	Mandatory
Tags	"implementation.c"

43

Assertion ID	C-TA-2007
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Source	[C20006]
Target	<function/> element of an <interface.c>
Prerequisites	@header attribute of the <interface.c> references a header file containing function declarations that are excluded from the interface via <function/> child elements.
Predicate	A function excluded from the interface cannot be invoked.
Prescription Level	Mandatory
Tags	"interface.c"

44

Assertion ID	C-TA-2008
Source	[C20007]
Target	<callbackFunction/> element of an <interface.c>
Prerequisites	@callbackHeader attribute of the <interface.c> references a header file containing function declarations that are excluded from the callback interface via <callbackFunction/> child elements.
Predicate	A function excluded from the callback interface cannot be invoked.
Prescription Level	Mandatory
Tags	"interface.c" "callbacks"

45

Assertion ID	C-TA-2011
Source	[C20009]
Target	<function/> element in a <interface.c/> element
Prerequisites	The <interface.c> element has more than one <function/> elements.
Predicate	The @name attribute [of the <function/> element] is not equal to the @name attribute of any other <function/> element in the <interface.c/>.
Prescription Level	Mandatory
Tags	"interface.c"

46

Assertion ID	C-TA-2012
Source	[C20010]
Target	<callbackFunction/> element in a <interface.c/> element
Prerequisites	The <interface.c> element has more than one <callbackFunction/> elements.
Predicate	The @name attribute [of the <callbackFunction/> element] is not equal to the @name attribute of any other <callbackFunction/> element in the <interface.c/>.

Prescription Level	Mandatory
Tags	"interface.c" "callbacks"

47

Assertion ID	C-TA-2017
Source	[C20013]
Target	<function/> element in a <implementation.c/> element
Prerequisites	The <implementation.c> element has more than one <function/> elements.
Predicate	The @name attribute [of the <function/> element] is not equal to the @name attribute of any other <function/> element in the <implementation.c/>.
Prescription Level	Mandatory
Tags	"implementation.c"

48

Assertion ID	C-TA-2018
Source	[C20016]
Target	@allowsPassByReference attribute of an <implementation.c/> element or a <<function/> element of an <implementation.c/> element.
Prerequisites	The interface of a services is defined with an <interface.c/> element, the client implementation and the service operation implementation of a wire are marked "allowsPassByReference" and a function of the interface has parameters that can be passed by-reference.
Predicate	By-reference marshalling is used for the operation invocation.
Prescription Level	Permitted
Tags	"implementation.c" "allowsPassByReference"

49

Assertion ID	C-TA-2019
Source	[C20017]
Target	@allowsPassByReference attribute of an <implementation.c/> element or a <<function/> element of an <implementation.c/> element.
Prerequisites	Either the client implementation or the service operation implementation of a wire is not marked "allowsPassByReference" .
Predicate	By-value marshalling is used for the operation invocation.
Prescription Level	Mandatory
Tags	"implementation.c" "allowsPassByReference"

50 **2.1.1 Additions for Program-Based Component Implementation Support**

51 The test assertions in this section apply to the optional program-based component implementation
 52 support. These assertions are only applicable if an implementation supports program-based component
 53 implementations.

Assertion ID	C-TA-2009
Source	[C20006]
Target	<function/> element of an <interface.c>
Prerequisites	@header attribute of the <interface.c> references a header file that defines operations using message formats and contains struct declarations that are excluded from the interface via <function/> child elements.
Predicate	No operation is defined by structs in the header file that are excluded from the interface.
Prescription Level	Mandatory
Tags	"interface.c" "operation message formats"

54

Assertion ID	C-TA-2010
Source	[C20007]
Target	<callbackFunction/> element of an <interface.c>
Prerequisites	@callbackHeader attribute of the <interface.c> references a header file that defines operations using message formats and contains struct declarations that are excluded from the callback interface via <callbackFunction/> child elements.
Predicate	No operation is defined by structs in the header that are excluded from the interface.
Prescription Level	Mandatory
Tags	"interface.c" "operation message formats" "callbacks"

55 **2.2 Section 3**

56 The test assertions in this section apply to the optional proxy function support. These assertions are only
 57 applicable if an implementation supports proxy functions.

Assertion ID	C-TA-3001
Source	[C30001]
Target	<reference/> element of a <componentType/>
Prerequisites	
Predicate	For each operation of the reference there is a generated proxy function.
Prescription Level	Permitted
Tags	"proxy functions"

58

Assertion ID	C-TA-3002
Source	[C30001]
Target	<service/> element of a <componentType/>
Prerequisites	The <service/> defines a callback interface.
Predicate	For each callback operation of the service there is a generated proxy function.
Prescription Level	Permitted
Tags	“proxy functions” “callbacks”

59

2.3 Section 4

Assertion ID	C-TA-4001
Source	[C40001]
Target	<binding/> of <interface/>
Prerequisites	Operation of the <interface/> is designated as using a oneway message exchange pattern.
Predicate	The request is queued for later delivery.
Prescription Level	Permitted
Tags	“oneway operations”

60

2.4 Section 6

Assertion ID	C-TA-6002
Source	[C60002]
Target	<implementation.c> of a <component/>
Prerequisites	The <component/> declares a <property/>
Predicate	The <implementation.c> can use SCAPropertyDataObject to retrieve the value of the property.
Prescription Level	Permitted
Tags	“programming interface”

61

2.5 Section 7

Assertion ID	C-TA-7001
Source	[C70001]
Target	<export.c/> element

Prerequisites	The domain has more than one <export.c>.
Predicate	The @name attribute of [the <export.c/> element] is not equal to the @name attribute of any other <export.c/> element in the domain.
Prescription Level	Mandatory
Tags	"export.c"

62

Assertion ID	C-TA-7002
Source	[C70002]
Target	<import.c/> element
Prerequisites	A contribution has more that one <import.c>.
Predicate	The @name attribute of [the <import.c/> element] is not equal to the @name attribute of any other <import.c/> element in the contribution.
Prescription Level	Mandatory
Tags	"import.c"

63

2.6 Section 8

Assertion ID	C-TA-8001
Source	[C80001]
Target	<interface.c/> element
Prerequisites	A header file is identified by the attributes of an <interface.c> as defining an interface and declarations of the functions contain macros and typedefs.
Predicate	The interface defined by the header file is compatible with the same interface defined without macros and typedefs.
Prescription Level	Mandatory
Tags	"interface.c" "header files"

64

Assertion ID	C-TA-8002
Source	[C80002]
Target	<interface.c/> element
Prerequisites	The value of the @remotable attribute of the <interface.c/> is true.
Predicate	The return type and the type of the parameters of every function of the interface is either a C fundamental type identified in the Simple Content Binding of the specification [SCA-C] or a DATAOBJECT.
Prescription	Mandatory

Level	
Tags	"interface.c" "header files"

65

Assertion ID	C-TA-8003
Source	[C80003]
Target	<interface.c>
Prerequisites	A header file is named by either the @header or the @callbackHeader attribute of an <interface.c>
Predicate	The header file declares at least one function or at least one message format struct.
Prescription Level	Mandatory
Tags	"interface.c" "header files"

66 **2.7 Section 9**

Assertion ID	C-TA-10001
Source	[C100001]
Target	PortType mapping
Prerequisites	A WSDL definition does not contain a <sca-c:prefix/> element
Predicate	Each <portType/> element of the WSDL definition is mapped to a separate header file.
Prescription Level	Preferred
Tags	"WSDL mapping"

67

Assertion ID	C-TA-10002
Source	[C100002]
Target	Operation mapping
Prerequisites	A <operation/> element does not contain an <sca-c:function/>.
Predicate	The name of the generated function declaration the name of the <operation/> element with the first character converted to lower case.
Prescription Level	Mandatory
Tags	"WSDL mapping"

68

Assertion ID	C-TA-10004
Source	[C100003]
Target	Message mapping

Prerequisites	A <operation/> element does not contain an <sca-c:parameter/> element for one of it's message parts.
Predicate	The name of the generated function parameter is the name of the message part with the first character converted to lower case.
Prescription Level	Mandatory
Tags	"WSDL mapping"

69

Assertion ID	C-TA-10006
Source	[C100004]
Target	Message mapping
Prerequisites	A <operation/> element does not contain an <sca-c:parameter/> element for one of it's wrapper children.
Predicate	The name of the generated function parameter is the name of the wrapper child with the first character converted to lower case.
Prescription Level	Mandatory
Tags	"WSDL mapping"

70

Assertion ID	C-TA-10008
Source	[C100019]
Target	Message mapping
Prerequisites	A WSDL <operation/> is mapped to a C function
Predicate	Each in message part or wrapper child is passed by-value Each in/out message part or wrapper child is passed by-pointer Each out message part or wrapper child not named return is passed by-pointer An out message part or wrapper child named return is mapped to the function return type.
Prescription Level	Mandatory
Tags	"WSDL mapping"

71

Assertion ID	C-TA-10010
Source	[C100006]
Target	Fault mapping
Prerequisites	A <message/> element is referred to by a <fault/> element of an <operation/> and does not contain an <sca-c:struct/> element.

Predicate	The name of the generated message format struct is the name of the <message/> possibly concatenated with "Fault".
Prescription Level	Mandatory
Tags	"WSDL mapping"

72

Assertion ID	C-TA-10011
Source	[C100007]
Target	Namespace mapping
Prerequisites	
Predicate	The implementation provides a way to control the default target namespace for generated WSDL definitions.
Prescription Level	Preferred
Tags	"WSDL mapping"

73

Assertion ID	C-TA-10012
Source	[C100008]
Target	PortType mapping
Prerequisites	A header file that does not contain a @WebService annotation is processed.
Predicate	The name of the generated portType is the root name of the header file possibly concatenated with "PortType".
Prescription Level	Mandatory
Tags	"WSDL mapping"

74

Assertion ID	C-TA-10013
Source	[C100009]
Target	Operation mapping
Prerequisites	A function declaration does not have a @WebFunction annotation
Predicate	An <operation/> is generated with the name of the function without any namespace or portType prefix.
Prescription Level	Mandatory
Tags	"WSDL mapping"

75

Assertion ID	C-TA-10015
Source	[C100011]
Target	Operation mapping
Prerequisites	A function declaration does not have a @WebParam annotation for one of its named parameters
Predicate	The name of the generated message part or wrapper child is name of the parameter.
Prescription Level	Mandatory
Tags	"WSDL mapping"

76

Assertion ID	C-TA-10016
Source	[C100011]
Target	Operation mapping
Prerequisites	A function declaration does not have a @WebParam annotation for one of its unnamed parameters
Predicate	The name of the generated message part or wrapper child is "argN" where N is the position of the parameter.
Prescription Level	Mandatory
Tags	"WSDL mapping"

77

Assertion ID	C-TA-10017
Source	[C100012]
Target	Operation mapping
Prerequisites	A function declaration does not have a @WebReturn annotation and does not have a void return type.
Predicate	The output <message/> for the generated <operation/> has a part or wrapper child named "return".
Prescription Level	Mandatory
Tags	"WSDL mapping"

78

Assertion ID	C-TA-10018
Source	[C100017]
Target	Operation mapping
Prerequisites	A function with parameters, not annotated with @WebParam, that are some subset of by-pointer, by-value, and by-const.

Predicate	The function's return type is mapped to an out message part or wrapper child. Each by-pointer parameter is mapped to an in/out message part or wrapper child. All other parameters are mapped to in message parts or wrapper children.
Prescription Level	Mandatory
Tags	"WSDL mapping"

79

Assertion ID	C-TA-10022
Source	[C100021]
Target	Type mapping
Prerequisites	
Predicate	A XSD type is mapped according to Table 1 of the specification [SCA-C] .
Prescription Level	Mandatory
Tags	"WSDL mapping"

80

Assertion ID	C-TA-10023
Source	[C100021]
Target	Type mapping
Prerequisites	
Predicate	A C type is mapped according to Tables 1 and 2 of the specification [SCA-C] .
Prescription Level	Mandatory
Tags	"WSDL mapping"

81

Assertion ID	C-TA-10024
Source	[C100022]
Target	Type mapping
Prerequisites	
Predicate	A parameter, return or struct member of type <code>_Bool</code> is mapped to <code>xsd:boolean</code> .
Prescription Level	Permitted
Tags	"WSDL mapping"

82

Assertion ID	C-TA-10025
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Source	[C100016]
Target	Type mapping
Prerequisites	A function has a return type that is a pointer to a struct or a parameter with a type defined by a struct.
Predicate	The generated message part or wrapper child has a complex type as defined by section 10.3.2 of the specification.
Prescription Level	Mandatory
Tags	"WSDL mapping"

83

Assertion ID	C-TA-10027
Source	[C100016]
Target	Type mapping
Prerequisites	A message part or wrapper child has a complex type.
Predicate	The generated function parameter has a type defined by a struct or type DataObject or The generated function return type is pointer to a struct or DataObject
Prescription Level	Mandatory
Tags	"WSDL mapping"

84

Assertion ID	CPP-TA-10029
Source	[CPP100023]
Target	portType mapping
Prerequisites	
Predicate	A WSDL portType is mapped to a remotable SCA interface
Prescription Level	Mandatory
Tags	"WSDL mapping"

85

Assertion ID	CPP-TA-10030
Source	[CPP100024]
Target	C interface mapping
Prerequisites	A C header file is not annotated with @WebService.
Predicate	The header file is mapped to WSDL as if it had a @WebService annotation with no parameters.
Prescription Level	Mandatory
Tags	"WSDL mapping"

86 **2.7.1 Additions for Program-Based Component Implementation Support**

87 The test assertions in this section apply to the optional program-based component implementation
 88 support. These assertions are only applicable if an implementation supports program-based component
 89 implementations.

Assertion ID	C-TA-10003
Source	[C100005]
Target	Operation mapping
Prerequisites	A <operation/> element does not contain an <sca-c:struct/>.
Predicate	The name of the generated request message format struct is the name of the <operation/> element with the first character converted to lower case and the name of the generated response message format struct is the generated request message struct concatenated with the "Response".
Prescription Level	Mandatory
Tags	"WSDL mapping"

90

Assertion ID	C-TA-10005
Source	[C100003]
Target	Message mapping
Prerequisites	A <operation/> element does not contain an <sca-c:parameter/> element for one of it's message parts.
Predicate	The name of the generated message format struct member is the name of the message part with the first character converted to lower case.
Prescription Level	Mandatory
Tags	"WSDL mapping"

91

Assertion ID	C-TA-10007
Source	[C100004]
Target	Message mapping
Prerequisites	A <operation/> element does not contain an <sca-c:parameter/> element for one of it's wrapper children.
Predicate	The name of the generated message format struct member is the name of the wrapper child with the first character converted to lower case.
Prescription Level	Mandatory
Tags	"WSDL mapping"

92

Assertion ID	C-TA-10009
Source	[C100020]
Target	Message mapping
Prerequisites	A WSDL <operation/> is mapped to C structs
Predicate	Each part or wrapper child of the input <message/> for the <operation/> is mapped, by-value, to a member of the request message struct. Each part or wrapper child of the output <message/> for the <operation/> is mapped, by-value, to a member of the response message struct.
Prescription Level	Mandatory
Tags	"WSDL mapping"

93

Assertion ID	C-TA-10014
Source	[C100010]
Target	Operation mapping
Prerequisites	A struct declaration does not have a @WebOperation annotation and does not end in "Response" or "Fault".
Predicate	An <operation/> is generated with the name of the struct without any namespace or portType prefix.
Prescription Level	Mandatory
Tags	"WSDL mapping"

94

Assertion ID	C-TA-10019
Source	[C100013]
Target	Operation mapping
Prerequisites	Structs are used to define operation messages
Predicate	The generated WSDL has document-literal style and encoding.
Prescription Level	Preferred
Tags	"WSDL mapping"

95

Assertion ID	C-TA-10020
Source	[C100014]
Target	Operation mapping
Prerequisites	A struct declaration does not have a @WebParam annotation for one of its members

Predicate	The name of the generated message part or wrapper child is name of the struct member.
Prescription Level	Mandatory
Tags	"WSDL mapping"

96

Assertion ID	C-TA-10021
Source	[C100015]
Target	Operation mapping
Prerequisites	The request message format struct and response message format struct for an operation have a member with the same name.
Predicate	The type of the member of each struct is the same.
Prescription Level	Mandatory
Tags	"WSDL mapping"

97

Assertion ID	C-TA-10026
Source	[C100016]
Target	Type mapping
Prerequisites	A message format struct has a member with a type defined by a struct.
Predicate	The generated message part or wrapper child has a complex type as defined by section 10.3.2 of the specification.
Prescription Level	Mandatory
Tags	"WSDL mapping"

98

Assertion ID	C-TA-10028
Source	[C100016]
Target	Type mapping
Prerequisites	A message part or wrapper child has a complex type.
Predicate	The generated message format struct member has a type defined by a struct or type DataObject.
Prescription Level	Mandatory
Tags	"WSDL mapping"

99 **2.8 Section 10**

Assertion ID	C-TA-11001
Source	[C110001]
Target	Composite file that violates the sca-interface-c.xsd schema and / or the sca-implementation-c.xsd schema.
Prerequisites	
Predicate	SCA runtime rejects the composite file and raises an error
Prescription Level	Mandatory
Tags	"composite" "schema"

100

Assertion ID	C-TA-11002
Source	[C110002]
Target	ComponentType file that violates the sca-interface-c.xsd schema.
Prerequisites	
Predicate	SCA runtime rejects the componentType file and raises an error
Prescription Level	Mandatory
Tags	"componentType" "schema"

101

Assertion ID	C-TA-11004
Source	[C110003]
Target	Contribution file that violates the sca-contribution-c.xsd schema.
Prerequisites	
Predicate	SCA runtime rejects the contribution file and raises an error
Prescription Level	Mandatory
Tags	"contribution" "schema"

102

Assertion ID	C-TA-11005
Source	[C110004]
Target	WSDL file that violates the sca-wsdlex-c.xsd schema.
Prerequisites	
Predicate	SCA runtime rejects the WSDL file and raises an error
Prescription	Mandatory

Level	
Tags	“WSDL” “schema”

103 **2.9 Appendix A**

104 The test assertions in this section apply to the optional C SCA annotation support. These assertions are
 105 only applicable if an implementation supports these annotations.

Assertion ID	C-TA-A001
Source	[CA0001]
Target	SCA annotations
Prerequisites	A source file containing SCA annotations is processed.
Predicate	SCDL file(s) containing elements, attributes and values corresponding to the annotations are generated.
Prescription Level	Mandatory
Tags	“SCA annotations”

106

Assertion ID	C-TA-A002
Source	[CA0001]
Target	SCA annotations
Prerequisites	A header file containing SCA annotations is referenced by an <interface.c>
Predicate	The SCA annotations are ignored during component execution.
Prescription Level	Mandatory
Tags	“SCA annotations”

107

Assertion ID	C-TA-A003
Source	[CA0002]
Target	SCA annotations
Prerequisites	A source file containing SCA annotations with sequential comments containing annotations related to the same program element is processed.
Predicate	The annotations are processed as if they were in one comment block.
Prescription Level	Preferred
Tags	“SCA annotations”

108

Assertion ID	C-TA-A004
--------------	-----------

Source	[CA0003]
Target	@WebService annotation
Prerequisites	A file containing a @WebService annotation, but not a corresponding @Remotable annotation.
Predicate	The generated SCDL is the same as if the file contained a @Remotable and an @Interface annotation with a name value equal to the name value of the @WebService annotation.
Prescription Level	Mandatory
Tags	"SCA annotations" "WSDL annotations"

109

Assertion ID	C-TA-A005
Source	[CA0004]
Target	@WebFunction annotation
Prerequisites	A function declaration with a @WebFunction annotation but not a corresponding @Function annotation.
Predicate	The generated SCDL is the same as if the function was annotated with a @Function annotation with a name value equal to the operationName value of the @WebFunction annotation and an exclude value equal to the exclude value of the @WebFunction annotation.
Prescription Level	Mandatory
Tags	"SCA annotations" "WSDL annotations"

110

Assertion ID	C-TA-A007
Source	[CA0006]
Target	SCA annotations
Prerequisites	A source file containing SCA annotations in comments starting // is processed.
Predicate	The generated SCDL is the same as if the file only contained annotations is comments of the form /* ... */.
Prescription Level	Optional
Tags	"SCA annotations" "WSDL annotations"

111

Assertion ID	C-TA-A008
Source	[CA0007]
Target	@Property annotation

Prerequisites	A componentType has multiple @Property annotations.
Predicate	All variables with @Property annotations and the same name have the same type.
Prescription Level	Mandatory
Tags	"SCA annotations" "WSDL annotations"

112 2.9.1 Additions for Program-Based Component Implementation Support

113 The test assertions in this section apply to the optional program-based component implementation
 114 support. These assertions are only applicable if an implementation supports C SCA annotations and
 115 program-based component implementations.

Assertion ID	C-TA-A006
Source	[CA0005]
Target	@WebOperation annotation
Prerequisites	A struct declaration with a @WebOperation annotation but not a corresponding @Operation annotation.
Predicate	The generated SCDL is the same as if the struct was annotated with an @Operation annotation with a name value equal to the operationName value of the @WebOperation annotation, a response value equal to the response value of the @WebOperation annotation and an exclude value equal to the exclude value of the @WebOperation annotation.
Prescription Level	Mandatory
Tags	"SCA annotations" "WSDL annotations"

116 2.10 Appendix C

117 The test assertions in this section apply to the optional C WSDL annotation support. These assertions are
 118 only applicable if an implementation supports these annotations.

Assertion ID	C-TA-C001
Source	[CC0001]
Target	@Interface annotation
Prerequisites	A file is annotated with @Remotable, but not @WebService.
Predicate	The generated WSDL is the same as if the file was annotated with @WebService and with a name value equal to the name value of the @Interface annotation, if specified, and no other parameters.
Prescription Level	Mandatory
Tags	"WSDL mapping" "WSDL annotations" "SCA annotations"

119

Assertion ID	C-TA-C002
--------------	-----------

Source	[CC0002]
Target	@Function annotation
Prerequisites	A function is annotated with @Function, but not @WebFunction.
Predicate	The generated WSDL is the same as if the function was annotated with @WebFunction with a operationName value equal to the name value of the @Function annotation, an exclude value equal to the exclude value of the @Function annotation and no other parameters.
Prescription Level	Mandatory
Tags	"WSDL mapping" "WSDL annotations" "SCA annotations"

120

Assertion ID	C-TA-C004
Source	[CC0004]
Target	@WebThrows
Prerequisites	A struct is listed named in a @WebThrows annotation.
Predicate	The struct is annotated with a @WebFault annotation.
Prescription Level	Mandatory
Tags	"WSDL mapping" "WSDL annotations"

121

Assertion ID	C-TA-C005
Source	[CC0005]
Target	WSDL annotations
Prerequisites	A source file containing WSDL annotations, explicit or implied by corresponding SCA annotations, is processed.
Predicate	A valid WSDL 1.1 file containing elements, attributes and values corresponding to the annotations is generated.
Prescription Level	Mandatory
Tags	"WSDL mapping" "WSDL annotations"

122

Assertion ID	C-TA-C006
Source	[CC0006]
Target	@WebParam
Prerequisites	A function is annotated with @WebParam which has a type value and the type of the parameter is not a struct or is struct tm.
Predicate	The type value of the @WebParam annotation is a valid simple type from the

	namespace: http://www.w3.org/2001/XMLSchema.
Prescription Level	Mandatory
Tags	"WSDL mapping" "WSDL annotations"

123

Assertion ID	C-TA-C007
Source	[CC0007]
Target	@WebResult
Prerequisites	A function is annotated with @WebResult which has a type value.
Predicate	The type value of the @WebResult annotation is a valid simple type from the namespace: http://www.w3.org/2001/XMLSchema.
Prescription Level	Mandatory
Tags	"WSDL mapping" "WSDL annotations"

124

Assertion ID	C-TA-C009
Source	[CC0009]
Target	@WebParam
Prerequisites	A function is annotated with @WebParam.
Predicate	The paramName value of the @WebParam annotation matches the name of a parameter of the function.
Prescription Level	Mandatory
Tags	"WSDL mapping" "WSDL annotations"

125

Assertion ID	C-TA-C010
Source	[CC0006]
Target	@WebParam
Prerequisites	A function is annotated with @WebParam which has a type value and the type of the parameter is struct other than struct tm.
Predicate	The type value of the @WebParam annotation is a QName of a complex type following the default C to WSDL mapping rules.
Prescription Level	Mandatory
Tags	"WSDL mapping" "WSDL annotations"

126

127 **2.10.1 Additions for Program-Based Component Implementation Support**

128 The test assertions in this section apply to the optional program-based component implementation
 129 support. These assertions are only applicable if an implementation supports C WSDL annotations and
 130 program-based component implementations.

Assertion ID	C-TA-C003
Source	[CC0003]
Target	@Operation annotation
Prerequisites	A struct is annotated with @Operation, but not @WebOperation.
Predicate	The generated WSDL is the same as if the struct was annotated with @WebOperation with a operationName value equal to the name value of the @Operation annotation, a response value equal to the response value of the @Operation annotation, an exclude value equal to the exclude value of the @Function annotation and no other parameters.
Prescription Level	Mandatory
Tags	“WSDL mapping” “WSDL annotations” “SCA annotations”

131

132 **2.11 Appendix D**

133 The test assertions in this section apply to the optional C WSDL extensions support. These assertions are
 134 only applicable if an implementation supports these extensions.

Assertion ID	C-TA-D001
Source	[CD0001]
Target	WSDL extensions
Prerequisites	A file containing valid WSDL 1.1 content and C mapping extensions is processed.
Predicate	A C header file containing declarations corresponding to WSDL content as modified by the C mapping extensions is generated.
Prescription Level	Mandatory
Tags	“WSDL mapping” “WSDL extensions”

135

Assertion ID	C-TA-D002
Source	[CD0002]
Target	<sca-c:parameter/>
Prerequisites	A WSDL operation element contains a <sca-c:parameter/> element with the @type attribute specified.
Predicate	The value of @type attribute is a valid C type as described in the specification [SCA-C] .
Prescription	Mandatory

Level	
Tags	"WSDL mapping" "WSDL extensions"

136

Assertion ID	C-TA-D003
Source	[CD0003]
Target	<sca-c:binding/>
Prerequisites	A WSDL element contains a <sca-c:binding/> element.
Predicate	The <sca-c:binding/> contains no more than one <sca-c:prefix/> element.
Prescription Level	Mandatory
Tags	"WSDL mapping" "WSDL extensions"

137

Assertion ID	C-TA-D004
Source	[CD0004]
Target	<sca-c:binding/>
Prerequisites	A WSDL element contains a <sca-c:binding/> element.
Predicate	The <sca-c:binding/> contains no more than one < sca-c:enableWrapperStyle/> element.
Prescription Level	Mandatory
Tags	"WSDL mapping" "WSDL extensions"

138

Assertion ID	C-TA-D005
Source	[CD0005]
Target	<sca-c:binding/>
Prerequisites	A WSDL element contains a <sca-c:binding/> element.
Predicate	The < sca-c:binding/> contains no more than one < sca-c:function/> element.
Prescription Level	Mandatory
Tags	"WSDL mapping" "WSDL extensions"

139

Assertion ID	C-TA-D006
Source	[CD0006]
Target	<sca-c:binding/>
Prerequisites	A WSDL element contains a <sca-c:binding/> element.

Predicate	The < sca-c:binding/> contains no more than one < sca-c:struct/> element.
Prescription Level	Mandatory
Tags	“WSDL mapping” “WSDL extensions”

140

Assertion ID	C-TA-D007
Source	[CD0007]
Target	WSDL extensions
Prerequisites	A file containing a valid WSDL 1.1 content and JAX-WS mapping extensions is processed.
Predicate	A C header file containing declarations corresponding to WSDL content as modified by the JAX-WS mapping extensions is generated.
Prescription Level	Permitted
Tags	“WSDL mapping” “WSDL extensions”

141

Assertion ID	C-TA-D008
Source	[CD0007]
Target	WSDL extensions
Prerequisites	A WSDL element contains a JAX-WS WSDL extension and the corresponding C WSDL extension as identified in section D.7 of the specification [SCA-C] .
Predicate	Only the C WSDL extension affects the generated C file.
Prescription Level	Mandatory
Tags	“WSDL mapping” “WSDL extensions”

142

2.12 Appendix F

Assertion ID	C-TA-F001
Source	[CF0001]
Target	WSDL mapping
Prerequisites	A file containing valid WSDL 1.1 content is processed.
Predicate	A C header file containing declarations corresponding to the WSDL content is generated.
Prescription Level	Mandatory
Tags	“WSDL mapping”

143

Assertion ID	C-TA-F002
Source	[CF0002]
Target	Annotation generation
Prerequisites	A WSDL file is processed.
Predicate	A C header file containing annotated declarations corresponding to the WSDL content is generated.
Prescription Level	Mandatory
Tags	"WSDL mapping" "WSDL annotations"

144

Assertion ID	C-TA-F003
Source	[CF0002]
Target	Annotation generation
Prerequisites	A WSDL file containing C mapping extensions is processed.
Predicate	A C header file containing annotated declarations corresponding to the WSDL content as modified by the C mapping extensions is generated.
Prescription Level	Mandatory
Tags	"WSDL mapping" "WSDL extensions" "WSDL annotations"

145

Assertion ID	C-TA-F004
Source	[CF0003]
Target	WSDL import mapping
Prerequisites	A WSDL file containing WSDL and XSD import directives is processed.
Predicate	A C header file containing declarations corresponding to the imported elements content is generated.
Prescription Level	Mandatory
Tags	"WSDL mapping" "WSDL annotations"

146

Assertion ID	C-TA-F005
Source	[CF0005]
Target	portType mapping
Prerequisites	
Predicate	The generated file containing the declarations corresponding to child elements of the <portType/> element has a @WebService annotation with a portName element value

	equal to the name of the <port/> element of the WSDL definition.
Prescription Level	Mandatory
Tags	"WSDL mapping" "WSDL annotations"

147

Assertion ID	C-TA-F006
Source	[CF0006]
Target	Operation mapping
Prerequisites	A WSDL <operation/> element contains a <sca-c:function/> element specifying a non-default name or the <soapAction/> element of the corresponding binding operation is not an empty string.
Predicate	The generated function corresponding to the <operation/> element has a @WebFunction annotation.
Prescription Level	Mandatory
Tags	"WSDL mapping" "WSDL annotations"

148

Assertion ID	C-TA-F007
Source	[CF0007]
Target	Operation mapping
Prerequisites	A WSDL <operation/> element uses a request-response or one-way transmission primitive.
Predicate	A function is generated for the <operation/> element.
Prescription Level	Mandatory
Tags	"WSDL mapping"

149

Assertion ID	C-TA-F008
Source	[CF0008]
Target	Operation mapping
Prerequisites	A WSDL <operation/> element uses a one-way transmission primitive.
Predicate	The generated function corresponding to the <operation/> element has a @Oneway annotation.
Prescription Level	Mandatory
Tags	"WSDL mapping" "WSDL annotations"

150

Assertion ID	C-TA-F009
Source	[CF0009]
Target	portType mapping
Prerequisites	A WSDL <portType/> element is bound to a SOAP binding that does not have style="Document", use="literal" and wrapped parameters.
Predicate	The generated file corresponding to a <portType/> element has a @SOAPBinding annotation.
Prescription Level	Mandatory
Tags	"WSDL mapping" "WSDL annotations"

151

Assertion ID	C-TA-F010
Source	[CF0010]
Target	Message mapping
Prerequisites	A WSDL <operation/> element uses a <message/> element which has content that causes non-default mapping of a part or wrapper child's name, mode, type, namespace or inclusion in a header.
Predicate	The generated function corresponding to the <operation/> element has a @WebParam annotation for the parameter.
Prescription Level	Mandatory
Tags	"WSDL mapping" "WSDL annotations"

152

Assertion ID	C-TA-F011
Source	[CF0011]
Target	Message mapping
Prerequisites	A WSDL <operation/> element uses a <message/> element which has content that causes non-default mapping of the, type, namespace or inclusion in a header of the part or wrapper child that maps to a member function's return type.
Predicate	The generated function corresponding to the <operation/> element has a @WebResult annotation.
Prescription Level	Mandatory
Tags	"WSDL mapping" "WSDL annotations"

153

Assertion ID	C-TA-F012
Source	[CF0012]
Target	Message mapping

Prerequisites	A WSDL <operation/> element does not qualify for wrapper-style.
Predicate	The generated function parameters are mapped following from the <part/> elements of the <message/> elements referenced by the <operation/> element.
Prescription Level	Mandatory
Tags	"WSDL mapping"

154

Assertion ID	C-TA-F013
Source	[CF0013]
Target	Operation mapping
Prerequisites	A WSDL <operation/> element contains a <sca-c:enableWrapperStyle/> element.
Predicate	The generated function parameters are mapped from wrapper children if the value of the <sca-c:enableWrapperStyle> is true and from <part/> elements otherwise.
Prescription Level	Mandatory
Tags	"WSDL mapping" "WSDL extensions"

155

Assertion ID	C-TA-F014
Source	[CF0014]
Target	Message mapping
Prerequisites	A WSDL <operation/> element has more than one wrapper child or <part/> element of <message/> elements referred to by the <operation/> element that do not map to the return type of the generated member function.
Predicate	Each wrapper child or <part/> element maps to a unique generated function parameter.
Prescription Level	Mandatory
Tags	"WSDL mapping"

156

Assertion ID	C-TA-F015
Source	[CF0015]
Target	Fault message mapping
Prerequisites	A WSDL <operation/> element contains a <fault/> element.
Predicate	The generated struct corresponding to the <message/> element referred to by the <fault/> element has a @WebFault annotation.
Prescription Level	Mandatory

Tags	"WSDL mapping" "WSDL annotations"
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157

Assertion ID	C-TA-F016
Source	[CF0016]
Target	Fault message mapping
Prerequisites	More that one <operation/> element has <fault/> elements referring to a <message/> element
Predicate	Only one exception message struct is generated.
Prescription Level	Mandatory
Tags	"WSDL mapping"

158

Assertion ID	C-TA-F018
Source	[CF0018]
Target	Binding mapping
Prerequisites	A file containing a <soap:binding> is processed.
Predicate	The generated C header file contains declarations and annotations corresponding to the <soap:binding/> element content.
Prescription Level	Mandatory
Tags	"WSDL mapping" "WSDL annotations"

159

Assertion ID	C-TA-F019
Source	[CF0019]
Target	Binding mapping
Prerequisites	A WSDL <message/> element contains <part/> elements that are not bound.
Predicate	The SCA Web Service binding ignores unbound in and in/out parameters and presents unbound out parameters as empty.
Prescription Level	Mandatory
Tags	"WSDL mapping" "SOAP binding"

160

Assertion ID	C-TA-F020
Source	[CF0020]
Target	Binding mapping
Prerequisites	A <operation/> element of a <soap:binding/> element contains more that one

	<soap:header/> element.
Predicate	Each SOAP header has a unique qualified name.
Prescription Level	Mandatory
Tags	"WSDL mapping" "SOAP binding"

161

Assertion ID	C-TA-F021
Source	[CF0021]
Target	Binding mapping
Prerequisites	A request message contains more than one <soap:header/> element.
Predicate	Each SOAP header mapped to a function parameter has a unique qualified name.
Prescription Level	Mandatory
Tags	"WSDL mapping" "SOAP binding"

162

Assertion ID	C-TA-F022
Source	[CF0022]
Target	WSDL mapping
Prerequisites	A C file containing a remotable SCA interface description is processed.
Predicate	A WSDL 1.1 file containing definitions corresponding to the C declarations is generated.
Prescription Level	Mandatory
Tags	"WSDL mapping"

163

Assertion ID	C-TA-F023
Source	[CF0023]
Target	WSDL mapping
Prerequisites	A C header file does not contain any WSDL mapping annotations
Predicate	All C identifiers are mapped to XML names as per the SOAP 1.2 algorithm.
Prescription Level	Mandatory
Tags	"WSDL mapping"

164

Assertion ID	C-TA-F024
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Source	[CF0024]
Target	WSDL Mapping
Prerequisites	
Predicate	Any WSDL or XSD imports comply with the WS-I Basic Profile 1.0 restrictions.
Prescription Level	Mandatory
Tags	"WSDL mapping"

165

Assertion ID	C-TA-F025
Source	[CF0025]
Target	Function mapping
Prerequisites	A function does not have a @OneWay annotation.
Predicate	The generated <operation/> element uses a request-response transmission primitive.
Prescription Level	Mandatory
Tags	"WSDL mapping" "WSDL annotations"

166

Assertion ID	C-TA-F026
Source	[CF0026]
Target	Function mapping
Prerequisites	A function has a @OneWay annotation and either has out or in/out parameters or has a return type that is not void.
Predicate	No <operation/> element is generated.
Prescription Level	Mandatory
Tags	"WSDL mapping" "WSDL annotations"

167

Assertion ID	C-TA-F027
Source	[CF0027]
Target	Parameter mapping
Prerequisites	A function has a parameter that has a @WebParam annotation with a header value of true.
Predicate	The parameter appears in a <soap:header/> element of the operation's input or output message.
Prescription Level	Mandatory

Tags	“WSDL mapping” “SOAP binding”
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168

Assertion ID	C-TA-F028
Source	[CF0027]
Target	Function mapping
Prerequisites	A function has a @WebResult annotation with a header value of true.
Predicate	The return value appears in a <soap:header/> element of the operation’s output message.
Prescription Level	Mandatory
Tags	“WSDL mapping” “SOAP binding”

169

Assertion ID	C-TA-F029
Source	[CF0029]
Target	Binding selection
Prerequisites	
Predicate	A <binding/> element is generated that reflect any policy intents applied to a interface definition.
Prescription Level	Mandatory
Tags	“WSDL mapping”

170

Assertion ID	C-TA-F030
Source	[CF0030]
Target	Binding selection
Prerequisites	A C interface definition has no attached policy intents that affect the binding selection.
Predicate	A SOAP HTTP <binding/> element is generated.
Prescription Level	Mandatory
Tags	“WSDL mapping” “SOAP binding”

171

Assertion ID	C-TA-F031
Source	[CF0031]
Target	Binding selection
Prerequisites	A SOAP HTTP <binding/> element is generated

Predicate	The <binding/> element contains a @style attribute
Prescription Level	Mandatory
Tags	“WSDL mapping” “SOAP binding”

172

Assertion ID	C-TA-F032
Source	[CF0032]
Target	Port mapping
Prerequisites	A header file does not have a @WebService annotation with a portName value.
Predicate	The name of the generated <port/> element is the name value of the @WebService annotation, if present, with “Port” appended , otherwise it is the name of the file with “Port” appended.
Prescription Level	Mandatory
Tags	“WSDL mapping”

173

Assertion ID	C-TA-F033
Source	[CF0032]
Target	Port mapping
Prerequisites	A header file has a @WebService annotation with a portName value.
Predicate	The name of the generated <port/> element is the portName value of the @WebService annotation.
Prescription Level	Mandatory
Tags	“WSDL mapping”

174

Assertion ID	C-TA-F034
Source	[CF0033]
Target	Port mapping
Prerequisites	A C interface definition has no attached policy intents that affect the binding selection.
Predicate	The <port/> element refers to a <binding/> element that is consistent with the policy intents.
Prescription Level	Mandatory
Tags	“WSDL mapping”

175

176 **3 Conformance**

177 There are no normative statements relating to the Test Assertions.

178
179

A. Cross Mapping of Normative Statements to Assertions

Normative statement	Test Assertion
C20001	C-TA-2001
C20004	C-TA-2003
C20006	C-TA-2007 C-TA-2009
C20007	C-TA-2008 C-TA-2010
C20009	C-TA-2011
C20010	C-TA-2012
C20013	C-TA-2017
C20015	C-TA-2006
C20016	C-TA-2018
C20017	C-TA-2019

180

Normative statement	Test Assertion
C30001	C-TA-3001 C-TA-3002

181

Normative statement	Test Assertion
C40001	C-TA-4001

182

Normative statement	Test Assertion
C50001	Not Testable

183

Normative statement	Test Assertion
C60002	C-TA-6002
C60003	C-TA-6003

184

Normative statement	Test Assertion
C70001	C-TA-7001
C70002	C-TA-7002

185

Normative statement	Test Assertion
C80001	C-TA-8001
C80002	C-TA-8002
C80003	C-TA-8003

186

Normative statement	Test Assertion
C100001	C-TA-10001
C100002	C-TA-10002
C100003	C-TA-10004 C-TA-10005
C100004	C-TA-10006 C-TA-10007
C100005	C-TA-10003
C100006	C-TA-10010
C100007	C-TA-10011
C100008	C-TA-10012
C100009	C-TA-10013
C100010	C-TA-10014
C100011	C-TA-10015 C-TA-10016
C100012	C-TA-10017
C100013	C-TA-10019
C100014	C-TA-10020
C100015	C-TA-10021
C100016	C-TA-10025 C-TA-10026 C-TA-10027 C-TA-10028
C100017	C-TA-10018
C100019	C-TA-10008
C100020	C-TA-10009
C100021	C-TA-10022 C-TA-10023
C100022	C-TA-10024
C100023	C-TA-10029
C100024	C-TA-10030

187

Normative statement	Test Assertion
C110001	C-TA-11001
C110002	C-TA-11002
C110003	C-TA-11004
C110004	C-TA-11005

188

Normative statement	Test Assertion
CA0001	C-TA-A001 C-TA-A002
CA0002	C-TA-A003
CA0003	C-TA-A004
CA0004	C-TA-A005
CA0005	C-TA-A006
CA0006	C-TA-A007
CA0007	C-TA-A008

189

Normative statement	Test Assertion
CC0001	C-TA-C001
CC0002	C-TA-C002
CC0003	C-TA-C003
CC0004	C-TA-C004
CC0005	C-TA-C005
CC0006	C-TA-C006 C-TA-C010
CC0007	C-TA-C007
CC0009	C-TA-C009

190

Normative statement	Test Assertion
CD0001	C-TA-D001
CD0002	C-TA-D002
CD0003	C-TA-D003
CD0004	C-TA-D004
CD0005	C-TA-D005
CD0006	C-TA-D006
CD0007	C-TA-D007 C-TA-D008

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Normative statement	Test Assertion
CF0001	C-TA-F001
CF0002	C-TA-F002 C-TA-F003
CF0003	C-TA-F004
CF0004	Not Testable
CF0005	C-TA-F005
CF0006	C-TA-F006
CF0007	C-TA-F007
CF0008	C-TA-F008
CF0009	C-TA-F009
CF0010	C-TA-F010
CF0011	C-TA-F011
CF0012	C-TA-F012
CF0013	C-TA-F013
CF0014	C-TA-F014
CF0015	C-TA-F015
CF0016	C-TA-F016
CF0018	C-TA-F018
CF0019	C-TA-F019
CF0020	C-TA-F020
CF0021	C-TA-F021
CF0022	C-TA-F022
CF0023	C-TA-F023
CF0024	C-TA-F024
CF0025	C-TA-F025
CF0026	C-TA-F026
CF0027	C-TA-F027 C-TA-F028
CF0029	C-TA-F029

Normative statement	Test Assertion
CF0030	C-TA-F030
CF0031	C-TA-F031
CF0032	C-TA-F032 C-TA-F033
CF0033	C-TA-F034

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