



---

# Test Assertions for the SCA POJO Component Implementation Version 1.1 Specification

## Working Draft 3

12 November 2009

### Specification URIs:

#### This Version:

<http://docs.oasis-open.org/sca-j/sca-j-pojo-ci-1.1-test-assertions-wd03.html>  
<http://docs.oasis-open.org/sca-j/sca-j-pojo-ci-1.1-test-assertions-wd03.odt>  
<http://docs.oasis-open.org/sca-j/sca-j-pojo-ci-1.1-test-assertions-wd03.pdf> (Authoritative)

#### Previous Version:

#### Latest Version:

<http://docs.oasis-open.org/sca-j/sca-j-pojo-ci-1.1-test-assertions.html>  
<http://docs.oasis-open.org/sca-j/sca-j-pojo-ci-1.1-test-assertions.odt>  
<http://docs.oasis-open.org/sca-j/sca-j-pojo-ci-1.1-test-assertions.pdf> (Authoritative)

### Technical Committee:

OASIS Service Component Architecture / J (SCA-J) TC

### Chair(s):

Mark Combellack	Avaya
David Booz	IBM

### Editor(s):

David Booz	IBM
------------	-----

### Related Work:

This document is related to:

- Service Component Architecture POJO Component Implementation Specification Version 1.1

### Declared XML Namespace(s):

None

### Abstract:

This document defines the Test Assertions for the SCA POJO Component Implementation specification.

The Test Assertions represent the testable items relating to the normative statements made in the SCA POJO Component Implementation 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 / J (SCA-J) 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-j/>.

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.oasis-open.org/committees/sca-j/ipr.php>).

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

---

# Notices

Copyright © OASIS® 2009. All Rights Reserved.

All capitalized terms in the following text have the meanings assigned to them in the OASIS Intellectual Property 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", [insert specific trademarked names, abbreviations, etc. here] 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

2	1 Introduction.....	5
3	1.1 Example Test Assertion.....	5
4	1.2 Terminology.....	5
5	1.3 Normative References.....	6
6	1.4 Non-normative References.....	6
7	2 Test Assertions.....	7
8	2.1 Section 2.....	7
9	2.2 Section 3.....	7
10	2.3 Section 4.....	7
11	2.4 Section 5.....	8
12	2.5 Section 8.....	8
13	2.6 Section 9.....	8
14	2.7 Section 10.....	9
15	3 Cross Mapping of Conformance Statements to Assertions.....	10
16	4 Conformance.....	14
17		

# 1 Introduction

This document defines the Test Assertions for the SCA POJO Component Implementation Specification Version 1.1.

The test assertions in this document follow the format defined in the OASIS Test Assertion Guidelines specification [TA-GUIDE].

## 1.1 Example Test Assertion

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

Assertion ID	JCI-TA-xxxx
Source	[JCIx00yy]
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 - "JCI" is for the SCA POJO Component Implementation 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 runtime and its behaviour.

**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 keywords "MUST", "MUST NOT", "REQUIRED", "SHALL", "SHALL NOT", "SHOULD", "SHOULD NOT", "RECOMMENDED", "MAY", and "OPTIONAL" in this specification are to be interpreted as described in [IETF RFC 2119 \[RFC 2119\]](#)

47  
48  
49  
50  
51  
52  
53  
54  
55  
56  
57  
58

### 1.3 Normative References

**[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>.

**[TA-GUIDE]** Test Assertion Guidelines, Draft 0.9.9.6, 16 November, 2008  
[http://www.oasis-open.org/apps/group\\_public/download.php/30070/TestAssertionsGuidelines-draft-0-9-9-6.pdf](http://www.oasis-open.org/apps/group_public/download.php/30070/TestAssertionsGuidelines-draft-0-9-9-6.pdf)

**[JAVACI]** OASIS SCA POJO Component Implementation specification  
<http://www.oasis-open.org/committees/download.php/33778/sca-javaci-1.1-spec-cd01-rev1.pdf>

### 1.4 Non-normative References

None

59

## 2 Test Assertions

60

### 2.1 Section 2

61

Assertion ID	JCI-TA-2001
Source	[JCI20001]
Target	Introspected service interface of an SCA POJO component implementation
Prerequisites	
Predicate	The introspected interface is one of: <ul style="list-style-type: none"> <li>• Java Interface</li> <li>• Java Class</li> <li>• Java Interface generated from a WSDL document</li> </ul>
Prescription Level	mandatory
Tags	"interface"

62

63

Assertion ID	JCI-TA-2002
Source	[JCI20002]
Target	SCA POJO component implementation class
Prerequisites	SCA component provides a service interface
Predicate	The implementation class implements all the methods in the service interface.
Prescription Level	mandatory
Tags	"implementation" "interface"

64

65

### 2.2 Section 5

66

Assertion ID	JCI-TA-5001
Source	[JCI50001]
Target	SCA POJO component implementation class
Prerequisites	
Predicate	The implementation class has a public or protected constructor.
Prescription Level	mandatory
Tags	"implementation" "constructor"

67

Assertion ID	JCI-TA-5002
Source	[JCI50004]
Target	SCA POJO component implementation class constructor
Prerequisites	<p>a) SCA Java component implementation class has a constructor annotated with @Constructor</p> <p>b) SCA Java component implementation class has a constructor which is not annotated with @Constructor but where all its parameters are annotated with either @Property or with @Reference</p> <p>c) SCA POJO implementation class has a no-arg constructor which is not annotated with @Constructor</p> <p>d) SCA POJO implementation has other constructors with arguments which are not annotated with @Constructor and which do not have all parameters marked with either @Reference or @Property</p> <p>e) An SCA component using the implementation class is instantiated</p>
Predicate	The SCA Runtime invokes the constructor annotated with @Constructor
Prescription Level	mandatory
Tags	"implementation" "constructor"

68

Assertion ID	JCI-TA-5003
Source	[JCI50004]
Target	SCA POJO component implementation class constructor
Prerequisites	<p>a) SCA Java component implementation class does not have a constructor annotated with @Constructor</p> <p>b) SCA Java component implementation class has a constructor which is not annotated with @Constructor but where all its parameters are annotated with either @Property or with @Reference</p> <p>c) SCA POJO implementation class has a no-arg constructor which is not annotated with @Constructor</p> <p>d) SCA POJO implementation has other constructors with arguments which are not annotated with @Constructor and which do not have all parameters marked with either @Reference or @Property</p> <p>e) An SCA component using the implementation class is instantiated</p>
Predicate	The SCA Runtime invokes the constructor which is not marked with @Constructor but which has all of its parameters marked with @Property or with @Reference
Prescription Level	mandatory
Tags	"implementation" "constructor"

69

Assertion ID	JCI-TA-5004
--------------	-------------



Source	[JCI50004]
Target	SCA POJO component implementation class constructor
Prerequisites	<p>a) SCA Java component implementation class does not have a constructor annotated with @Constructor</p> <p>b) SCA Java component implementation class does not have a constructor which is not annotated with @Constructor but where all its parameters are annotated with either @Property or with @Reference</p> <p>c) SCA POJO implementation class has a no-arg constructor which is not annotated with @Constructor</p> <p>d) SCA POJO implementation has other constructors with arguments which are not annotated with @Constructor and which do not have all parameters marked with either @Reference or @Property</p> <p>e) An SCA component using the implementation class is instantiated</p>
Predicate	The SCA Runtime invokes the no-arg constructor
Prescription Level	mandatory
Tags	"implementation" "constructor"

70

Assertion ID	JCI-TA-5005
Source	[JCI50004]
Target	SCA POJO component implementation class constructor
Prerequisites	<p>a) SCA Java component implementation class does not have a constructor annotated with @Constructor</p> <p>b) SCA Java component implementation class does not have a constructor which is not annotated with @Constructor but where all its parameters are annotated with either @Property or with @Reference</p> <p>c) SCA POJO implementation class does not have a no-arg constructor</p> <p>d) SCA POJO implementation has other constructors with arguments which are not annotated with @Constructor and which do not have all parameters marked with either @Reference or @Property</p> <p>e) An SCA component using the implementation class is instantiated</p>
Predicate	The SCA Runtime does not invoke any constructor and an error is thrown
Prescription Level	mandatory
Tags	"implementation" "constructor"

71

Assertion ID	JCI-TA-5006
Source	[JCI50002]
Target	SCA POJO component implementation class constructor
Prerequisites	
Predicate	At most one constructor is annotated with the @Constructor annotation

.Prescription Level	mandatory
Tags	"implementation" "constructor"

72

Assertion ID	JCI-TA-5007
Source	[JCI50005]
Target	SCA POJO component implementation class constructor
Prerequisites	a) The implementation class has no @Constructor annotations
Predicate	The implementation class has at most one constructor that has a non-empty parameter list and all parameters are annotated with either @Property or @Reference
Prescription Level	mandatory
Tags	"implementation" "constructor"

73

## 74 2.3 Section 6

75

Assertion ID	JCI-TA-6001
Source	[JCI60001]
Target	SCA POJO implementation annotated with @Scope("STATELESS")
Prerequisites	
Predicate	POJO implementation is run and has the operational characteristics of a STATELESS scoped implementation
Prescription Level	mandatory
Tags	"implementation" "scope"

76

77

Assertion ID	JCI-TA-6002
Source	[JCI60001]
Target	SCA POJO implementation with @Scope("COMPOSITE")
Prerequisites	
Predicate	POJO implementation is run and has the operational characteristics of a COMPOSITE scoped implementation
Prescription Level	mandatory
Tags	"implementation" "scope"

78

79  
80

## 2.4 Section 8

Assertion ID	JCI-TA-8001
Source	[JCI80001]
Target	SCA POJO implementation class with a @Service annotation
Prerequisites	@Service annotation has a single interface class in its value attribute and no name attribute
Predicate	Introspected <componentType> has a <service> element with @name equal to the simple name of the interface class in the @Service annotation
Prescription Level	mandatory
Tags	“componentType” “service”

81  
82

Assertion ID	JCI-TA-8002
Source	[JCI80001]
Target	SCA POJO implementation class with a @Service annotation
Prerequisites	@Service annotation has a single interface class in its value attribute and no name attribute
Predicate	Introspected <componentType> has a <service> element with an <interface.java/> subelement with the @interface attribute set to the fully qualified name of the interface class in the value attribute of the @Service annotation
Prescription Level	mandatory
Tags	“componentType” “service”

83  
84

Assertion ID	JCI-TA-8003
Source	[JCI80001]
Target	SCA POJO implementation class with a @Requires annotation with one or more intents declared
Prerequisites	
Predicate	Introspected <componentType> has a <service> element with @requires attribute containing the set of intents in the @Requires annotation
Prescription Level	mandatory
Tags	“componentType” “service”

85  
86

Assertion ID	JCI-TA-8004
--------------	-------------

Source	[JCI80001]
Target	SCA POJO implementation class with zero @Service annotations
Prerequisites	Implementation class implements an Interface where the interface class is annotated with @Remotable
Predicate	Introspected <componentType> has a <service> element with a) @name set to the simple name of the interface class b) an <interface.java/> subelement with @interface attribute set to the fully qualified name of the interface class
Prescription Level	mandatory
Tags	"componentType" "service"

87

88

Assertion ID	JCI-TA-8005
Source	[JCI80001]
Target	SCA POJO implementation class with zero @Service annotations
Prerequisites	Implementation class does not implement any interfaces where the interface class is annotated with @Remotable
Predicate	Introspected <componentType> has a <service> element with a) @name set to the simple name of the implementation class b) an <interface.java/> subelement with @interface attribute set to the fully qualified name of the implementation class
Prescription Level	mandatory
Tags	"componentType" "service"

89

90

Assertion ID	JCI-TA-8006
Source	[JCI80001]
Target	SCA POJO implementation class with a @Reference annotation
Prerequisites	@Reference annotation has a @name parameter
Predicate	Introspected <componentType> has a <reference> element with @name attribute set to the value of the @name parameter of the @Reference annotation
Prescription Level	mandatory
Tags	"componentType" "reference"

91

92

Assertion ID	JCI-TA-8007
--------------	-------------

Source	[JCI80001]
Target	SCA POJO implementation class with a @Reference annotation
Prerequisites	1) @Reference annotation annotates a field which is an array type 2) @Reference annotation has @required=true
Predicate	Introspected <componentType> has a <reference> element with @multiplicity set to 1..n
Prescription Level	mandatory
Tags	"componentType" "reference"

93

94

Assertion ID	JCI-TA-8007
Source	[JCI80001]
Target	SCA POJO implementation class with a @Reference annotation
Prerequisites	1) @Reference annotation has a @required=false 2) @Reference annotation annotates a field with an interface type
Predicate	Introspected <componentType> has a <reference> element with @multiplicity set to 0..1
Prescription Level	mandatory
Tags	"componentType" "reference"

95

96

Assertion ID	JCI-TA-8008
Source	[JCI80001]
Target	SCA POJO implementation class with a @Reference annotation
Prerequisites	@Reference annotation annotates a field which is also annotated with a @Requires annotation
Predicate	Introspected <componentType> has a <reference> element with @requires set to the value of the @Requires annotation
Prescription Level	mandatory
Tags	"componentType" "reference"

97

98

Assertion ID	JCI-TA-8009
Source	[JCI80001]
Target	SCA POJO implementation class with a @Property annotation
Prerequisites	1) @Property annotation annotates a setter method 2) Setter method parameter has a type which is not an array or collection

	type
Predicate	<p>Inspected &lt;componentType&gt; has a &lt;property&gt; element with</p> <p>a) @name set to the Javabeans property name derived from the setter method name</p> <p>b) @type set to the JAXB mapping of the type of the parameter of the setter method</p>
Prescription Level	mandatory
Tags	"componentType" "reference"

99

100

Assertion ID	JCI-TA-8010
Source	[JCI80001]
Target	SCA POJO implementation class with zero @Reference annotations and zero @Property annotations
Prerequisites	Class has a public setter method which is not part of a service interface and which has a parameter typed by an interface class which is annotated with @Remotable
Predicate	<p>Inspected &lt;componentType&gt; has a &lt;reference&gt; element with</p> <p>a) @name set to the Javabeans property name derived from the setter method name</p> <p>b) @multiplicity is 1..1</p> <p>c) &lt;interface.java/&gt; subelement referencing the fully qualified name of the interface class</p>
Prescription Level	mandatory
Tags	"componentType" "reference"

101

102

Assertion ID	JCI-TA-8011
Source	[JCI80001]
Target	SCA POJO implementation class with zero @Reference annotations and zero @Property annotations
Prerequisites	Class has a public field with a type which is not a Java interface
Predicate	<p>Inspected &lt;componentType&gt; has a &lt;property&gt; element with:</p> <p>a) @name set to the name of the public field</p> <p>b) @type set to the JAXB mapping of the type of the field</p>
Prescription Level	mandatory
Tags	"componentType" "reference"

103

104

Assertion ID	JCI-TA-8012
Source	[JCI80001]
Target	SCA POJO implementation class
Prerequisites	Implementation class has a @Requires attribute
Predicate	Introspected <componentType> has an <implementation.java/> subelement with @requires attribute present with a value equal to the value of the @Requires attribute
Prescription Level	mandatory
Tags	"componentType" "reference"

105

106

Assertion ID	JCI-TA-8013
Source	[JCI80002]
Target	SCA POJO implementation class with 2 or more setter methods annotated with @Property
Prerequisites	
Predicate	The JavaBeans property name for each property setter method is unique.
Prescription Level	mandatory
Tags	"implementation" "property"

107

108

Assertion ID	JCI-TA-8014
Source	[JCI80002]
Target	SCA POJO implementation class with 2 or more setter methods annotated with @Reference
Prerequisites	
Predicate	The JavaBeans property name for each reference setter method is unique.
Prescription Level	mandatory
Tags	"implementation" "reference"

109

110

## 2.5 Section 9

111

Assertion ID	JCI-TA-9001
Source	[JCI90001]
Target	SCA <component> using <implementation.java/>

Prerequisites	
Predicate	The <implementation.java/> element conforms to the sca-implementation-java.xsd schema
Prescription Level	mandatory
Tags	"implementation" "schema"

112

113

Assertion ID	JCI-TA-9002
Source	[JCI90002, JCI100008]
Target	SCA POJO component implementation class
Prerequisites	<ul style="list-style-type: none"> <li>a) An SCA component that uses the @class attribute to specify its Java implementation class</li> <li>b) The Java implementation class is contained within the same contribution as the component</li> <li>c) The SCA component is instantiated</li> </ul>
Predicate	The Java class specified on the @class attribute is found
Prescription Level	mandatory
Tags	"implementation" "resolution"

114

115

Assertion ID	JCI-TA-9003
Source	[JCI90002, JCI100008]
Target	SCA POJO component implementation class
Prerequisites	<ul style="list-style-type: none"> <li>a) An SCA component that uses the @class attribute to specify its Java implementation class</li> <li>b) The Java implementation class is exported by a contribution (Contribution B) in the SCA Domain</li> <li>c) The Java implementation class is also contained within the same contribution (Contribution A) as the component</li> <li>d) Contribution A imports the Java package of the implementation class</li> <li>e) The SCA component is instantiated</li> </ul>
Predicate	The Java class specified on the @class attribute is loaded from Contribution B
Prescription Level	mandatory
Tags	"implementation" "resolution"

116

117



Assertion ID	JCI-TA-9004
Source	[JCI90002, JCI100008]
Target	SCA POJO component implementation class
Prerequisites	<p>a) An SCA component that uses the @class attribute to specify its Java implementation class</p> <p>b) The Java implementation class is contained within another contribution (Contribution C) in the SCA Domain</p> <p>c) The Java implementation class is exported by another contribution (Contribution B) in the SCA Domain</p> <p>d) The Java implementation class is also contained within the same contribution (Contribution A) as the component</p> <p>e) Contribution A imports the Java package of the implementation class and uses the @location attribute of &lt;import.java/&gt; to specify Contribution C</p> <p>f) The SCA component is instantiated</p>
Predicate	The Java class specified on the @class attribute is loaded from Contribution C
Prescription Level	mandatory
Tags	"implementation" "resolution"

118

119

Assertion ID	JCI-TA-9005
Source	[JCI90002, JCI100008]
Target	SCA POJO component implementation class
Prerequisites	<p>a) An SCA component that uses the @class attribute to specify its Java implementation class</p> <p>b) The Java implementation class is contained within another contribution (Contribution C) in the SCA Domain</p> <p>c) The Java implementation class is exported by another contribution (Contribution B) in the SCA Domain</p> <p>d) The Java implementation class is also contained within the same contribution (Contribution A) as the component</p> <p>e) Contribution A uses a Java language specific mechanism to specify the location of the implementation class</p> <p>f) The SCA component is instantiated</p>
Predicate	The Java class specified on the @class attribute is loaded by the Java language specific mechanism
Prescription Level	mandatory
Tags	"implementation" "resolution"

120

121

Assertion ID	JCI-TA-9006
Source	[JCI90003]
Target	Java class referenced by @class attribute of <implementation.java/>
Prerequisites	
Predicate	The Java class conforms to Java SE 5.0
Prescription Level	mandatory
Tags	"implementation" "java"

122

## 123 2.6 Section 10

124

Assertion ID	JCI-TA-10001
Source	[JCI100001]
Target	<import.java/> element of sca-contribution.xml
Prerequisites	
Predicate	The value of the @package attribute on the <import.java/> element is unique across all other <import.java/> elements within the contribution.
Prescription Level	mandatory
Tags	"import"

125

126

Assertion ID	JCI-TA-10002
Source	[JCI100002]
Target	Java package with version referenced by <import.java/>
Prerequisites	<ul style="list-style-type: none"> <li>a) An SCA component and implementation that uses the Java package specified in the &lt;import.java/&gt; element contained with Contribution A</li> <li>b) The Java implementation class is exported by another contribution (Contribution B) in the SCA Domain</li> <li>c) The SCA component is instantiated</li> </ul>
Predicate	The Java classes in the package that is loaded, satisfy the <import.java/>
Prescription Level	mandatory
Tags	"import" "resolution"

127

128

Assertion ID	JCI-TA-10003
Source	[JCI100002]

Target	Java package with version referenced by <import.java/>
Prerequisites	a) An SCA component and implementation that uses the Java package specified in the <import.java/> element contained with Contribution A b) The Java implementation class is contained within contribution (Contribution B) in the SCA Domain c) The @location attribute on <import.java/> points to Contribution B c) The SCA component is instantiated
Predicate	The Java classes in the package that is loaded from contribution B, satisfy the <import.java/>
Prescription Level	mandatory
Tags	"import" "resolution"

129

130

Assertion ID	JCI-TA-10004
Source	[JCI100003]
Target	<export.java> with @package that uses the "uses" directive
Prerequisites	a) An SCA component and implementation contained within Contribution A that imports the Java packages specified in the <import.java/> element b) Contribution A also imports one or more of the packages specified in the uses directive of <import.java/> c) Another contribution (Contribution B) contains the <export.java/> element d) A third contribution (Contribution C) also exports the the same Java package as Contribution B, but it does not contain the "uses" directive e) The SCA component is instantiated
Predicate	The Java classes required by Contribution A are all loaded from Contribution B
Prescription Level	mandatory
Tags	"export" "resolution"

131

132

Assertion ID	JCI-TA-10005
Source	[JCI100004]
Target	<export.java/> element of a contribution
Prerequisites	
Predicate	The value of the @package attribute on the <export.java/> element is unique across all other <export.java/> elements within the contribution.
Prescription Level	mandatory

Tags	"export"
------	----------

133

134

Assertion ID	JCI-TA-10006
Source	[JCI100007]
Target	@package attribute of <export.java/>
Prerequisites	
Predicate	The Java package specified on the @package attribute is contained with the same contribution as the <export.java/>
Prescription Level	mandatory
Tags	"export" "resolution"

135

136

Assertion ID	JCI-TA-10007
Source	[JCI100010]
Target	SCA Runtime
Prerequisites	
Predicate	All classes loaded from a contribution are loaded by a contribution unique class loader.
Prescription Level	mandatory
Tags	"class-loader"

137

138

Assertion ID	JCI-TA-10008
Source	[JCI100011]
Target	SCA Runtime
Prerequisites	a) Contribution A imports Java classes b) Contribution B exports the same java classes
Predicate	Contribution B's class loader loads classes from Contribution A
Prescription Level	mandatory
Tags	"class-loader"

139

140

Assertion ID	JCI-TA-10009
Source	[JCI100009]
Target	SCA Runtime

Prerequisites	a) SCA POJO component contained within Contribution A b) The SCA component is instantiated
Predicate	SCA Runtime's thread context class loader is the class loader for Contribution A
Prescription Level	mandatory
Tags	"class-loader"

141

### 3 Cross Mapping of Conformance Statements to Assertions

Conformance statement	Test Assertion
JCI20001	JCI-TA-2001
JCI20002	JCI-TA-2002

Conformance statement	Test Assertion
JCI50001	JCI-TA-5001
JCI50002	JCI-TA-5005
JCI50004	JCI-TA-5002 JCI-TA-5003 JCI-TA-5004
JCI50005	JCI-TA-5006

Conformance statement	Test Assertion
JCI60001	JCI-TA-6001 JCI-TA-6002

Conformance statement	Test Assertion
JCI8001	JCI-TA-8001 JCI-TA-8002 JCI-TA-8003 JCI-TA-8004 JCI-TA-8005 JCI-TA-8006 JCI-TA-8007
JCI8002	JCI-TA-8008 JCI-TA-8009

Conformance statement	Test Assertion
JCI90001	JCI-TA-9001
JCI90002	JCI-TA-9002 JCI-TA-9003 JCI-TA-9004 JCI-TA-9005
JCI90003	JCI-TA-9006

151

<b>Conformance statement</b>	<b>Test Assertion</b>
JCI100001	JCI-TA-10001
JCI100002	JCI-TA-10002 JCI-TA-10003
JCI100003	JCI-TA-10004
JCI100004	JCI-TA-10005
JCI100007	JCI-TA-10006
JCI100008	JCI-TA-9002 JCI-TA-9003 JCI-TA-9004 JCI-TA-9005
JCI100010	JCI-TA-10007
JCI100011	JCI-TA-10008
JCI100009	JCI-TA-10009

152

153

154

---

## 4 Conformance

155

There are no conformance statements relating to the Test Assertions.

156



157

---

## Appendix A. Acknowledgments

158 The following individuals have participated in the creation of this specification and are gratefully  
159 acknowledged

160 **Participants:**

161

Participant Name	Affiliation
------------------	-------------

162

163

164

---

## Appendix B. Non-Normative Text

---

## Appendix C. Revision History

167

168

169

<b>Revision</b>	<b>Date</b>	<b>Editor</b>	<b>Changes Made</b>
1	28/08/09	David Booz	Initial version
2	29/09/09	David Booz	Updates in section 5 and 6 as per review comments

170