



TestCases for the SCA POJO Component Implementation Specification Version 1.1

Committee Specification Draft 02

15 August 2011

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- Test suite artifacts ZIP archive: <http://docs.oasis-open.org/opencsa/sca-j/sca-j-pojo-ci-1.1-testcases-csd02/testcases.zip>

Related work:

This specification is related to:

- *Service Component Architecture SCA-J Common Annotations and APIs Specification Version 1.1*. Latest version. <http://docs.oasis-open.org/opencsa/sca-j/sca-javacaa-1.1-spec.html>
- *Service Component Architecture POJO Component Implementation Specification Version 1.1*. Latest version. <http://docs.oasis-open.org/opencsa/sca-j/sca-javaci-1.1-spec.html>

Declared XML namespaces:

- <http://docs.oasis-open.org/ns/opencsa/scatests/200903>
- <http://docs.oasis-open.org/ns/opencsa/scatests/2009032>
- <http://test.sca.oasisopen.org/>

Abstract:

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

The TestCases represent a series of tests that an SCA runtime must pass in order to claim conformance to the requirements of the SCA POJO Component Implementation Specification Version 1.1.

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1 Introduction

This document defines the TestCases for the SCA POJO Component Implementation Specification Version 1.1 specification.

The tests described in this document are derived from the normative statements in SCA POJO Component Implementation Specification Version 1.1 via Test Assertions which are described in Appendix A. Test Assertions for the SCA POJO Component Implementation Specification.

1.1 TestCase Structure

The SCA J POJO-CI testcases follow a standard structure. They are divided into two main parts:

1. Test Client, which drives the test and checks that the results are as expected
2. Test Application, which forms the bulk of the testcase and which consists of Composites, WSDL files, XSDs and code artifacts such as Java classes, organized into a series of SCA contributions

The basic idea is that the Test Application runs on the SCA runtime that is under test, while the Test Client runs as a standalone application, invoking the Test Application through one or more service interfaces.

Test Client

The test client is designed as a standalone application. The version built here is a Java application which uses the JUnit test framework, although in principle, the client could be built using another implementation technology.

The test client is structured to contain configuration information about the testcase, which consists of:

1. metadata identifying the Test Application in terms of the SCA Contributions that are used and the Composites that must be deployed and run
2. data indicating which service operation(s) must be invoked with input data and expected output data (including exceptions for expected failure cases)

The Java test client consists of a base runtime class, BaseJAXWSTestCase.java. Each actual testcase is implemented by a small class which extends the base runtime class. The bulk of the code required to run a test is held in the base runtime class. The small testcase class contains the configuration for the specific test, which it provides to the code in the base runtime class through a standard interface.

The Java test client base runtime class is structured so that there is a replaceable class called the RuntimeBridge, which is used to communicate with the SCA runtime under test, for the purposes of deploying and running the test application. Each SCA runtime provider can produce a version of this class. The code within the runtime bridge is likely to be highly proprietary and specific to the SCA runtime for which it is written. Which runtime bridge class is used at runtime is controlled by an environment variable or system variable with the name "OASIS_TESTENV_RUNTIME_BRIDGE_CLASS", which is read by the code in BaseJAXWSTestCase.

The Test Client defaults to using Web services to communicate with the test application. The client is structured to permit Web services to be replaced by some other binding (eg JMS) in the case that the SCA runtime under test not support Web services as a binding technology.

38 **Test Application**

39 Each Test Application consists of one top level SCA Composite file and one or more other SCA Compos-
40 ite files and their associated artifacts (implementations, interface files), plus test client invocation applica-
41 tion described above.

42 A typical test application has a design where the top level composite offers a single service to the client
43 application over a Web services binding. The top level composite contains one component which offers
44 the service that is used by the client application. The top level composite then contains one or more other
45 components which are used by the first component.

46 The components in the composites are typically implemented by Java POJO classes.

47 **Test Artifacts Organization**

48 Note that the design of these testcases promotes reuse of artifacts between testcases, so that many test-
49 cases share components. For example, components implementing simple invocable services are all im-
50 plemented using a single parameterized implementation artifact.

51 All the test artifacts are contained in a number of Contributions, which are simply filesystem directories
52 which are all peers in the filesystem hierarchy. The names of the directories are the names of the Contri-
53 butions and the names are significant. The names of Contributions containing implementation type spe-
54 cific artifacts (such as Java classes) are also specially structured to allow for replacement of one type of
55 implementation artifact with another.

56 Broadly, Contribution names are as follows:

- 57 • POJO_nnnn - a contribution that is specific for a particular testcase, where "nnnn" is the num-
58 ber of the testcase. Often this is required because a particular testcase involves artifacts that
59 contain errors that are statically checkable - an SCA runtime is permitted to reject such artifacts
60 when they are contributed and deployed and it is important to ensure that contributions containing
61 deliberate errors for one testcase do not interfere with the operation of other testcases.
- 62 • POJO_General - a shared contribution containing implementation type independent artifacts that
63 can be used by many testcases.

64 **1.2 Namespaces and Java Package Names**

65 The SCA POJO-CI testcase suite makes use of some XML namespaces and Java package names, as
66 follows:

67 **SCA Artifact Namespaces**

68 These apply to artifacts such as Composites

69 <http://docs.oasis-open.org/ns/opencsa/scatests/200903>

70 <http://docs.oasis-open.org/ns/opencsa/scatests/2009032>

71 **WSDL Namespace**

72 <http://test.sca.oasisopen.org/>

73 **Java Package name**

74 For Java interface classes and for Java implementation classes

75 `org.oasisopen.sca.test`

76 **1.3 Terminology**

77 The keywords "MUST", "MUST NOT", "REQUIRED", "SHALL", "SHALL NOT", "SHOULD", "SHOULD
78 NOT", "RECOMMENDED", "MAY", and "OPTIONAL" in this specification are to be interpreted as de-
79 scribed in [IETF RFC 2119](#) [[RFC 2119](#)]

80 **1.4 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>.

[JAVACI] OASIS Committee Specification Draft 04, *SCA-J POJO Component
Implementation Specification V1.1, August 2011*
<http://docs.oasis-open.org/opencsa/sca-j/sca-javaci-spec-v1.1-csd04.pdf>

[JAX-B] JAXB 2.1 Specification,
<http://www.jcp.org/en/jsr/detail?id=222>

[TA-GUIDE] OASIS Committee Draft 05, *Test Assertions Guidelines Version 1.0,*
August 2010 [http://docs.oasis-
open.org/tag/guidelines/v1.0/cd05/testassertionsguidelines-cd-05.pdf](http://docs.oasis-open.org/tag/guidelines/v1.0/cd05/testassertionsguidelines-cd-05.pdf)

81 **1.5 Non-normative References**

82 N/A

83

84 **2 TestCases**

85 **2.1 Section 2**

86 **POJO_2001_TestCase**

87

Testcase ID	POJO_2001_TestCase
Test Assertion	JCI-TA-2001
Description	Tests that a Java POJO implementation can define a service interface using a Java interface
Artifacts	POJO_2001_TestCase.java Test_POJO_2001.composite TestInvocation.wsdl TestClient_0002.composite Service1.java service1Impl.java
Expected output	Positive test: "POJO_2001 request service1 operation1 invoked"

88

89 **POJO_2002_TestCase**

90

Testcase ID	POJO_2002_TestCase
Test Assertion	JCI-TA-2001
Description	Tests that a Java POJO implementation can define a service interface using a Java class
Artifacts	POJO_2002_TestCase.java Test_POJO_2002.composite TestInvocation.wsdl TestClient_0002.composite Service1.java serviceImplClass.java
Expected output	Positive test: "POJO_2002 request service1 operation1 invoked"

91

92 **POJO_2003_TestCase**

93

Testcase ID	POJO_2003_TestCase
Test Assertion	JCI-TA-2002
Description	Tests that a Java POJO implementation class implements all the operations defined by its service interface
Artifacts	POJO_2003_TestCase.java Test_POJO_2003.composite TestInvocation.wsdl TestClient_0002.composite MultiOperationService1.java incompleteOperationsImpl.java
Expected output	Negative test: "exception"

94

95 **2.2 Section 5**

96 **POJO_5001_TestCase**

97

Testcase ID	POJO_5001_TestCase
Test Assertion	JCI-TA-5001
Description	Tests that a Java POJO implementation class has either a public or a protected constructor
Artifacts	POJO_5001_TestCase.java Test_POJO_5001.composite TestInvocation.wsdl TestClient_0002.composite Service1.java service1PrivateConstructorImpl.java
Expected output	Negative test: "exception"

98

99 **POJO_5002_TestCase**

100

Testcase ID	POJO_5002_TestCase
Test Assertion	JCI-TA-5002
Description	Tests that where a POJO implementation has a constructor annotated with <code>@Constructor</code> , that this constructor is invoked when the implementation class is instantiated
Artifacts	POJO_5002_TestCase.java Test_POJO_5002.composite TestInvocation.wsdl TestClient_0002.composite ASM_0002_Client.java Service1.java service1AnnotatedConstructorImpl.java
Expected output	Positive test: "POJO_5002 request service1 operation1 invoked <code>@Constructor</code> was invoked"

101

102 **POJO_5003_TestCase**

103

Testcase ID	POJO_5003_TestCase
Test Assertion	JCI-TA-5003
Description	Tests that where a POJO implementation has no constructor annotated with <code>@Constructor</code> but has a constructor with all its parameters either annotated with <code>@Property</code> or annotated with <code>@Reference</code> , that this constructor is invoked when the implementation class is instantiated
Artifacts	POJO_5003_TestCase.java Test_POJO_5003.composite TestInvocation.wsdl TestClient_0002.composite ASM_0002_Client.java Service1.java service1AnnotatedParameterConstructorImpl.java
Expected output	Positive test: "POJO_5003 request service1 operation1 invoked fullAnnotated constructor was invoked"

104

105 **POJO_5004_TestCase**

106

Testcase ID	POJO_5004_TestCase
Test Assertion	JCI-TA-5004
Description	Tests that where a POJO implementation has no constructor annotated with <code>@Constructor</code> and no constructor with all its parameters either annotated with <code>@Property</code> or annotated with <code>@Reference</code> , but it has a no-arg constructor, that the no-arg constructor is invoked when the implementation class is instantiated
Artifacts	POJO_5004_TestCase.java Test_POJO_5004.composite TestInvocation.wsdl TestClient_0002.composite ASM_0002_Client.java Service1.java service1NoArgConstructorImpl.java
Expected output	Positive test: "POJO_5004 request service1 operation1 invoked no-arg constructor was invoked"

107

108 **POJO_5005_TestCase**

109

Testcase ID	POJO_5005_TestCase
Test Assertion	JCI-TA-5005
Description	Tests that where a POJO implementation has no constructor annotated with <code>@Constructor</code> and no constructor with all its parameters either annotated with <code>@Property</code> or annotated with <code>@Reference</code> and does not have a no-arg constructor, that no constructor is invoked and an error is thrown by the SCA runtime
Artifacts	POJO_5005_TestCase.java Test_POJO_5005.composite TestInvocation.wsdl TestClient_0002.composite ASM_0002_Client.java Service1.java

	service1NoValidConstructorsImpl.java
Expected output	Negative test: "exception"

110

111 **POJO_5006_TestCase**

112

Testcase ID	POJO_5006_TestCase
Test Assertion	JCI-TA-5006
Description	Tests that a POJO implementation class has no more than 1 constructor annotated with @Constructor
Artifacts	POJO_5006_TestCase.java Test_POJO_5006.composite TestInvocation.wsdl TestClient_0002.composite ASM_0002_Client.java Service1.java service1MultipleConstructorAnnotationsImpl.java
Expected output	Negative test: "exception"

113

114 **POJO_5007_TestCase**

115

Testcase ID	POJO_5007_TestCase
Test Assertion	JCI-TA-5007
Description	Tests that a POJO implementation class containing no @Constructor annotations has no more than 1 constructor with a non-empty parameter list where all the parameters are annotated with either @Property or with @Reference
Artifacts	POJO_5007_TestCase.java Test_POJO_5007.composite TestInvocation.wsdl TestClient_0002.composite ASM_0002_Client.java Service1.java

	service1MultipleAnnotatedConstructorsImpl.java
Expected output	Negative test: "exception"

116

117 2.3 Section 8

118 POJO_6001_TestCase

119

Testcase ID	POJO_6001_TestCase
Test Assertion	JCA-TA-6001
Description	Tests that a POJO implementation annotated with @Scope("STATELESS") runs with the operational characteristics of a STATELESS scoped implementation.
Artifacts	POJO_6001_TestCase.java Test_POJO_6001.composite TestInvocation.wsdl TestClient_0002.composite ASM_0002_Client.java Service1.java service1Impl2java
Expected output	Positive test: "POJO_6001 request service1 operation1 invoked target stateless scope service invoked successfully"

120

121

Testcase ID	POJO_6002_TestCase
Test Assertion	Tests that a POJO implementation annotated with @Scope("COMPOSITE") runs with the operational characteristics of a COMPOSITE scoped implementation.
Description	Tests that
Artifacts	POJO_6002_TestCase.java Test_POJO_6002.composite TestInvocation.wsdl TestClient_0002.composite ASM_0002_Client.java Service1.java

	service1CoordinatorImpl.java service1CompositeImpl.java
Expected output	Positive test: "POJO_6002 request service1 operation1 invoked target composite scope service invoked successfully"

122

123 2.4 Section 8

124 POJO_8001_TestCase

125

Testcase ID	POJO_8001_TestCase
Test Assertion	JCI-TA-8001
Description	Tests that when a POJO implementation class has a @Service annotation with a single interface class in its value attribute and no name attribute, that its componentType has a <service/> subelement with a @name attribute which is the simple name of the Java interface class
Artifacts	POJO_8001_TestCase.java Test_POJO_8001.composite TestInvocation.wsdl TestClient_0002.composite ASM_0002_Client.java Service1.java Service1Superset.java service1SupersetImpl.java
Expected output	Positive test: "POJO_8001 request service1 operation1 invoked"

126

127 POJO_8002_TestCase

128

Testcase ID	POJO_8002_TestCase
Test Assertion	JCA-TA-8002
Description	Tests that when a POJO implementation class has a @Service annotation with a single interface class in its value attribute and no name attribute, that its componentType has a <service/> subelement with an <interface.-java/> subelement with the @interface attribute set to the fully qualified name of the interface class in the @Service annotation
Artifacts	POJO_8002_TestCase.java

	Test_POJO_8002.composite TestInvocation.wsdl TestClient_0002.composite ASM_0002_Client.java Service1Superset.java (1 st copy in org.oasisopen.sca.test package) Service1Superset.java (2 nd copy in default package) service1SupersetImpl.java
Expected output	Negative test: "exception"

129

130 **POJO_8003_TestCase**

131

Testcase ID	POJO_8003_TestCase
Test Assertion	JCI-TA-8003
Description	Tests that an SCA POJO implementation with an @Requires annotation on the class and a @Service annotation, has a <service/> element in its componentType which has a @requires attribute containing the set of intents contained in the @Requires annotation
Artifacts	POJO_8003_TestCase.java Test_POJO_8003.composite TestInvocation.wsdl TestClient_0002.composite ASM_0002_Client.java Service1.java PropagatesTransaction.java service1WithIntentImpl.java
Expected output	Negative test: "exception"

132

133 **POJO_8004_TestCase**

134

Testcase ID	POJO_8004_TestCase
Test Assertion	JCI-TA-8004
Description	Tests that a POJO implementation with no @Service annotation that implements an interface where the interface class is annotated with @Remot-

	able has a componentType with a <service/> subelement with @name set to the simple name of the interface class and with an <interface.java/> subelement that is set to the fully qualified name of the interface class
Artifacts	POJO_8004_TestCase.java Test_POJO_8004.composite TestInvocation.wsdl TestClient_0002.composite ASM_0002_Client.java Service1.java service1NoServiceAnnotationImpl.java
Expected output	Positive test: "POJO_8004 request service1 operation1 invoked"

135

136 **POJO_8005_TestCase**

137

Testcase ID	POJO_8005_TestCase
Test Assertion	JCI-TA-8005
Description	Tests that where a POJO implementation class has no @Service annotations and does not implement an interface class which is annotated with @Remotable, that the componentType of the implementation has a single <service/> element with @name set to the simple name of the implementation class and an <interface.java/> subelement with @interface set to the fully qualified name of the implementation class
Artifacts	POJO_8005_TestCase.java Test_POJO_8005.composite TestInvocation.wsdl TestClient_0002.composite ASM_0002_Client.java Service1.java plainClassImpl.java
Expected output	Positive test: "POJO_8005 request service1 operation1 invoked"

138

139 **POJO_8006_TestCase**

140

Testcase ID	POJO_8006_TestCase
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Test Assertion	JCI-TA-8006
Description	Tests that where a POJO implementation class has a @Reference annotation with the @name parameter, that the componentType of the implementation has a <reference/> element with its @name attribute set to the value of the @name parameter of the @Reference annotation
Artifacts	POJO_8006_TestCase.java Test_POJO_8006.composite TestInvocation.wsdl TestClient_0002.composite ASM_0002_Client.java Service1.java service1Impl.java service1RefWithNameImpl.java
Expected output	Positive test: "POJO_8006 request service1 operation1 invoked service2 operation1 invoked"

141

142 **POJO_8007_TestCase**

143

Testcase ID	POJO_8007_TestCase
Test Assertion	JCI-TA-8008
Description	Tests that where a POJO implementation has a @Reference annotation with @required=false and the annotation annotates a field with an interface type, that the componentType of the implementation has a <reference/> element with @multiplicity set to "0..1"
Artifacts	POJO_8007_TestCase.java Test_POJO_8007.composite TestInvocation.wsdl TestClient_0002.composite ASM_0002_Client.java Service1.java service1Impl6.java
Expected output	Positive test: "POJO_8007 request service1 operation1 invoked reference is null"

144

145 **POJO_8008_TestCase**

146

Testcase ID	POJO_8008_TestCase
Test Assertion	JCI-TA-8009
Description	Tests that where a POJO implementation has a <code>@Reference</code> annotation which annotates a field which also has a <code>@Requires</code> annotation that the <code>componentType</code> of the implementation as a <code><reference/></code> element with a <code>@requires</code> attribute set to the value of the <code>@Requires</code> annotation
Artifacts	POJO_8008_TestCase.java Test_POJO_8008.composite TestInvocation.wsdl TestClient_0002.composite ASM_0002_Client.java Service1.java service1Impl.java service1WithRefIntentImpl.java
Expected output	Negative test: "exception"

147

148 **POJO_8009_TestCase**

149

Testcase ID	POJO_8009_TestCase
Test Assertion	JCI-TA-8010
Description	Tests that a POJO implementation with a <code>@Property</code> annotation which annotates a setter method and the setter method parameter has a type which is not an array or a collection type has a <code>componentType <property/></code> element with <code>@name</code> set to the JavaBeans property name derived from the name of the setter method and has <code>@type</code> set to the JAXB mapping of the parameter of the setter method
Artifacts	POJO_8009_TestCase.java Test_POJO_8009.composite TestInvocation.wsdl TestClient_0002.composite ASM_0002_Client.java Service1.java service1PropertySetterImpl.java
Expected output	Positive test:

	"POJO_8009 request service1 operation1 invoked 2002.09.13 09:00:00"
--	---

150

151 **POJO_8010_TestCase**

152

Testcase ID	POJO_8010_TestCase
Test Assertion	JCI-TA-8011
Description	Tests that a POJO implementation with no @Reference annotations and also with no @Property annotations and which has a public setter method which is not part of a service interface and which has a parameter typed by an interface which is annotated with @Remotable has a componentType with a <reference/> element with @name set to the Javabeans property name derived from the setter method name and @multiplicity of 1..1 and with an <interface.java/> subelement which references the fully qualified name of the interface class
Artifacts	POJO_8010_TestCase.java Test_POJO_8010.composite TestInvocation.wsdl TestClient_0002.composite ASM_0002_Client.java Service1.java service1Impl.java service1UnannotatedRefSetterImpl.java
Expected output	Positive test: "POJO_8010 request service1 operation1 invoked service2 operation1 invoked"

153 **POJO_8011_TestCase**

154

Testcase ID	POJO_8011_TestCase
Test Assertion	JCI-TA-8012
Description	Tests that a POJO implementation with no @Reference annotations and also with no @Property annotations and which has a public setter method which is not part of a service interface and which has a parameter which is not typed by an interface annotated with @Remotable or an array or a parameterized java.util.Collection has a componentType with a <property/> element with @name set to the Javabeans property name derived from the setter method name and @type set to the JAXB mapping of the type of the setter method and with @many set to "false"
Artifacts	POJO_8011_TestCase.java Test_POJO_8011.composite

	TestInvocation.wsdl TestClient_0002.composite ASM_0002_Client.java Service1.java service1UnannotatedPropertySetterImpl.java
Expected output	Positive test: "POJO_8011 request service1 operation1 invoked"

155

156 **POJO_8012_TestCase**

157

Testcase ID	POJO_8012_TestCase
Test Assertion	JCI-TA-8013
Description	Tests that a POJO implementation with a @Requires attribute on the class that the componentType has an <implementation.java/> subelement with a @requires attribute with the same value as the @Requires attribute
Artifacts	POJO_8012_TestCase.java Test_POJO_8012.composite TestInvocation.wsdl TestClient_0002.composite ASM_0002_Client.java Service1.java service1WithIntentImpl.java
Expected output	Negative test: "exception"

158

159

160 **POJO_8013_TestCase**

161

Testcase ID	POJO_8013_TestCase
Test Assertion	JCI-TA-8014
Description	Tests that a POJO implementation class with 2 setter methods annotated with @Property have unique JavaBeans property names for the methods
Artifacts	POJO_8013_TestCase.java Test_POJO_8013.composite

	TestInvocation.wsdl TestClient_0002.composite ASM_0002_Client.java Service1.java service1DupPropertySettersImpl.java
Expected output	Negative test: "exception"

162

163 **POJO_8014_TestCase**

164

Testcase ID	POJO_8014_TestCase
Test Assertion	JCI-TA-8015
Description	Tests that a POJO implementation class with 2 setter methods annotated with @Reference have unique JavaBeans property names for the methods
Artifacts	POJO_8014_TestCase.java Test_POJO_8014.composite TestInvocation.wsdl TestClient_0002.composite ASM_0002_Client.java Service1.java service1DupReferenceSettersImpl.java
Expected output	Negative test: "exception"

165

166 **POJO_8015_TestCase**

167

Testcase ID	POJO_8015_TestCase
Test Assertion	JCI-TA-8007
Description	Tests that where a POJO implementation has a @Reference annotation with @required=true and the annotation annotates a field which is an array type, that the componentType of the implementation has a <reference/> element with @multiplicity set to "1..n"
Artifacts	POJO_8015_TestCase.java Test_POJO_8015.composite

	TestInvocation.wsdl TestClient_0002.composite ASM_0002_Client.java Service1.java Service1Impl.java Service1Impl3.java
Expected output	Positive test: "POJO_8015 request service1 operation1 invoked service2 operation1 invokedservice3 operation1 invoked"

168

169 **POJO_8016_TestCase**

170

Testcase ID	POJO_8016_TestCase
Test Assertion	JCI-TA-8016
Description	Tests that a POJO implementation class with @Service annotation and @Remotable annotation, where the @Service annotation references an interface which does not contain an @Remotable annotation has a componentType with a <service/> element with <interface.java/> set with @interface set to the fully qualified name of the interface class in the value attribute of the @Service annotation and the @remotable attribute set to "true"
Artifacts	POJO_8016_TestCase.java Test_POJO_8016.composite TestInvocation.wsdl TestClient_0002.composite ASM_0002_Client.java Service1.java Service1NoRemotable.java Service1NoRemotableImpl.java
Expected output	Positive test: "POJO_8016 request service1 operation1 invoked"

171

172 **POJO_8017_TestCase**

173

Testcase ID	POJO_8017_TestCase
Test Assertion	JCI-TA-8017
Description	Tests that a POJO implementation class with @Reference annotation on a

	setter method where the interface type of the method has no @Remotable annotation but the setter method has a @Remotable annotation, the implementation has a componentType with a <reference/> element with <interface.java/> set with @interface set to the fully qualified name of the interface class which types the parameter of the setter method and the @remotable attribute set to "true"
Artifacts	POJO_8017_TestCase.java Test_POJO_8017.composite TestInvocation.wsdl TestClient_0002.composite ASM_0002_Client.java Service1.java service1Impl.java Service1NoRemotable.java Service1NoRemotableReflImpl.java
Expected output	Positive test: "POJO_8017 request service1 operation1 invoked service2 operation1 invoked"

174

175 **POJO_8018_TestCase**

176

Testcase ID	POJO_8018_TestCase
Test Assertion	JCI-TA-8018
Description	Tests that an implementation class with a setter method that takes an interface type parameter and is annotated with @Reference has a componentType with a <reference/> element with an <interface.java/> subelement with @interface set to the fully qualified name of the interface type
Artifacts	POJO_8018_TestCase.java Test_POJO_8018.composite TestInvocation.wsdl TestClient_0002.composite ASM_0002_Client.java Service1.java service1Impl.java Service1ReferenceSetterImpl.java
Expected output	Positive test: "POJO_8018 request service1 operation1 invoked service2 operation1 in-

	voked"
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177

178 **POJO_8019_TestCase**

179

Testcase ID	POJO_8019_TestCase
Test Assertion	JCI-TA-8019
Description	Tests that an implementation class with a constructor parameter which has an interface type and is annotated with @Reference has a componentType with a <reference/> element with an <interface.java/> subelement with @interface set to the fully qualified name of the interface type
Artifacts	POJO_8019_TestCase.java Test_POJO_8019.composite TestInvocation.wsdl TestClient_0002.composite ASM_0002_Client.java Service1.java service1Impl.java Service1ReferenceConstructorImpl.java
Expected output	Positive test: "POJO_8019 request service1 operation1 invoked service2 operation1 invoked"

180

181 **POJO_8020_TestCase**

182

Testcase ID	POJO_8020_TestCase
Test Assertion	JCI-TA-8020
Description	Tests that an implementation class with a @Service annotation and a @PolicySets annotation with a policySet declared has a componentType with a <service/> element with the @policySets attribute containing the policySet from the @PolicySets annotation
Artifacts	POJO_8020_TestCase.java Test_POJO_8020.composite TestInvocation.wsdl TestClient_0002.composite ASM_0002_Client.java Service1.java

	service1Impl.java Service1ServicePolicySetsImpl.java test:PolicySet3 in definitions.xml of contribution
Expected output	Positive test: "POJO_8020 request service1 operation1 invoked"

183

184 **POJO_8021_TestCase**

185

Testcase ID	POJO_8021_TestCase
Test Assertion	JCI-TA-8021
Description	Tests that an implementation class with a @Reference annotation and a @PolicySets annotation with a policySet declared has a componentType with a <reference/> element with the @policySets attribute containing the policySet from the @PolicySets annotation
Artifacts	POJO_8021_TestCase.java Test_POJO_8021.composite TestInvocation.wsdl TestClient_0002.composite ASM_0002_Client.java Service1.java service1Impl.java Service1ReferencePolicySetsImpl.java
Expected output	Positive test: "POJO_8021 request service1 operation1 invoked service2 operation1 invoked"

186

187 **POJO_8022_TestCase**

188

Testcase ID	POJO_8022_TestCase
Test Assertion	JCI-TA-8022
Description	Tests that an implementation class with zero @Service, @Reference, @Property annotations and a @PolicySets annotation on the class with one policy set declared, has a componentType with a <service/> element with a @policySets attribute present containing the policy set declared in the @PolicySets annotation
Artifacts	POJO_8022_TestCase.java

	Test_POJO_8022.composite TestInvocation.wsdl TestClient_0002.composite ASM_0002_Client.java Service1.java Service1UnannotatedWithPolicySetsImpl.java
Expected output	Positive test: "POJO_8022 request service1 operation1 invoked service2 operation1 invoked"

189

190 **POJO_8023_TestCase**

191

Testcase ID	POJO_8023_TestCase
Test Assertion	JCI-TA-8023
Description	Tests that an implementation class with zero @Service, @Reference, @Property annotations and a @PolicySets annotation on a public field, typed by an interface annotated with @Remotable, with one policy set declared, has a componentType with a <reference/> element with a @policySets attribute present containing the policy set declared in the @PolicySets annotation
Artifacts	POJO_8023_TestCase.java Test_POJO_8023.composite TestInvocation.wsdl TestClient_0002.composite ASM_0002_Client.java Service1.java service1Impl.java Service1UnannotatedWithRefPolicySetsImpl.java
Expected output	Positive test: "POJO_8023 request service1 operation1 invoked service2 operation1 invoked"

192

193 **POJO_8024_TestCase**

194

Testcase ID	POJO_8024_TestCase
Test Assertion	JCI-TA-8024

Description	Tests that an implementation class has a <code>@PolicySets</code> annotation on the class with one policy set declared, has a <code>componentType</code> with a <code><implementation.java/></code> element with a <code>@policySets</code> attribute present containing the policy set declared in the <code>@PolicySets</code> annotation
Artifacts	POJO_8024_TestCase.java Test_POJO_8024.composite TestInvocation.wsdl TestClient_0002.composite ASM_0002_Client.java Service1.java service1Impl.java Service1ReferencePolicySetsImpl.java
Expected output	Positive test: "POJO_8024 request service1 operation1 invoked service2 operation1 invoked"

195

196 **POJO_8025_TestCase**

197

Testcase ID	POJO_8025_TestCase
Test Assertion	JCI-TA-8025
Description	Tests that an implementation class with zero <code>@Service</code> , <code>@Reference</code> , <code>@Property</code> annotations, which has a public setter method, not part of a service interface, with a parameter type which is an array of interface classes annotated with <code>@Remotable</code> has a <code>componentType</code> with a <code><reference/></code> element with <code>@name</code> set to the JavaBeans property name from the setter method name, <code>@multiplicity</code> set to 1..n and an <code><interface.java/></code> subelement which references the fully qualified name of the interface class
Artifacts	POJO_8025_TestCase.java Test_POJO_8025.composite TestInvocation.wsdl TestClient_0002.composite ASM_0002_Client.java Service1.java service1Impl.java Service1ReferencePolicySetsImpl.java
Expected output	Positive test: "POJO_8025 request service1 operation1 invoked service2 operation1 invoked"

198

199 **POJO_8026_TestCase**

200

Testcase ID	POJO_8026_TestCase
Test Assertion	JCI-TA-8026
Description	Tests that an implementation class with zero @Service, @Reference, @Property annotations, which has a public setter method, not part of a service interface, with a parameter type which is a java.util.Collection parameterized by an interface class annotated with @Remotable has a componentType with a <reference/> element with @name set to the JavaBeans property name from the setter method name, @multiplicity set to 1..n and an <interface.java/> subelement which references the fully qualified name of the interface class
Artifacts	POJO_8026_TestCase.java Test_POJO_8026.composite TestInvocation.wsdl TestClient_0002.composite ASM_0002_Client.java Service1.java service1Impl.java Service1ReferencePolicySetsImpl.java
Expected output	Positive test: "POJO_8026 request service1 operation1 invoked service2 operation1 invoked"

201

202 **POJO_8027_TestCase**

203

Testcase ID	POJO_8027_TestCase
Test Assertion	JCI-TA-8027
Description	Tests that an implementation class with zero @Service, @Reference, @Property annotations, which has a public setter method, not part of a service interface, with a parameter type which is a java.util.Collection not parameterized by an interface class annotated with @Remotable has a componentType with a <property/> element with @name set to the JavaBeans property name from the setter method name, @type set to the JAXB mapping of the type of the setter parameter and @many set to "true"
Artifacts	POJO_8027_TestCase.java Test_POJO_8027.composite TestInvocation.wsdl

	TestClient_0002.composite ASM_0002_Client.java Service1.java service1Impl.java Service1UnannotatedManyPropertySetterImpl.java
Expected output	Positive test: "POJO_8027 request service1 operation1 invoked 2002.09.13 09:00:00 2010.10.28 23:05:13";

204

205 **POJO_8028_TestCase**

206

Testcase ID	POJO_8028_TestCase
Test Assertion	JCI-TA-8028
Description	Tests that an implementation class with a javax.jws.WebService annotation and no @Service annotation has a component type with a <service/> element with @name set to the name property on the @WebService annotation and an <interface.java/> subelement with the @interface attribute set to the fully qualified name of the implementation class
Artifacts	POJO_8028_TestCase.java Test_POJO_8028.composite TestInvocation.wsdl TestClient_0002.composite ASM_0002_Client.java Service1.java Service1JWSWebServiceImpl.java
Expected output	Positive test: "POJO_8028 request service1 operation1 invoked";

207

208 **POJO_8029_TestCase**

209

Testcase ID	POJO_8029_TestCase
Test Assertion	JCI-TA-8029
Description	Tests that an implementation class with a javax.jws.WebService annotation and no @Service annotation, where the @EndpointInterface annotation property is set to the name of a Java interface class, has a component type with a <service/> element with @name set to the name property on the @WebService annotation and an <interface.java/> subelement with the

	@interface attribute set to the value of the EndpointInterface property
Artifacts	POJO_8029_TestCase.java Test_POJO_8029.composite TestInvocation.wsdl TestClient_0002.composite ASM_0002_Client.java Service1.java Service1JWSWebServiceEPIImpl.java
Expected output	Positive test: "POJO_8029 request service1 operation1 invoked";

210

211 **POJO_8030_TestCase**

212

Testcase ID	POJO_8030_TestCase
Test Assertion	JCI-TA-8030
Description	Tests that an implementation class with a javax.jws.WebService annotation and no @Service annotation, where the @WsdLocation annotation property is set to a WSDL document, has a component type with a <service/> element with @name set to the name property on the @WebService annotation and an <interface.wsdl/> subelement with the @interface attribute set to the portType referenced by the value of the WsdLocation property
Artifacts	POJO_8030_TestCase.java Test_POJO_8030.composite TestInvocation.wsdl TestClient_0002.composite ASM_0002_Client.java Service1.java Service1JWSWebServiceWSDLImpl.java
Expected output	Negative test: "exception"

213

214 **POJO_8031_TestCase**

215

Testcase ID	POJO_8031_TestCase
Test Assertion	JCI-TA-8031

Description	Tests that an implementation class with a service method with javax.jws.WebParam annotation on a parameter with the @header property set to "true", has a component type with a <service/> element with @requires attribute containing the "sca:SOAP" intent
Artifacts	POJO_8031_TestCase.java Test_POJO_8031.composite TestInvocation.wsdl TestClient_0002.composite ASM_0002_Client.java Service1.java Service1JWSWebParamImpl.java
Expected output	Negative test: "exception"

216

217 **POJO_8032_TestCase**

218

Testcase ID	POJO_8032_TestCase
Test Assertion	JCI-TA-8032
Description	Tests that an implementation class with a service method with javax.jws.WebResult annotation on a parameter with the @header property set to "true", has a component type with a <service/> element with @requires attribute containing the "sca:SOAP" intent
Artifacts	POJO_8032_TestCase.java Test_POJO_8032.composite TestInvocation.wsdl TestClient_0002.composite ASM_0002_Client.java Service1.java Service1JWSWebResultImpl.java
Expected output	Negative test: "exception"

219

220 **POJO_8033_TestCase**

221

Testcase ID	POJO_8033_TestCase
Test Assertion	JCI-TA-8033

Description	Tests that an implementation class annotated with a javax.jws.soap.SOAP-Binding annotation has a component type with a <service/> element with @requires attribute containing the "sca:SOAP" intent
Artifacts	POJO_8033_TestCase.java Test_POJO_8033.composite TestInvocation.wsdl TestClient_0002.composite ASM_0002_Client.java Service1.java Service1JWSSOAPBindingImpl.java
Expected output	Negative test: "exception"

222

223 **POJO_8034_TestCase**

224

Testcase ID	POJO_8034_TestCase
Test Assertion	JCI-TA-8034
Description	Tests that an implementation class with a javax.xml.ws.WebServicePro-vider annotation, has a component type with a <service/> element with an <interface.java/> subelement set to the fully qualified name of the interface class
Artifacts	POJO_8034_TestCase.java Test_POJO_8034.composite TestInvocation.wsdl TestClient_0002.composite ASM_0002_Client.java Service1.java Service1JWSWebServiceProviderImpl.java
Expected output	Positive test: "POJO_8034 request service1 operation1 invoked";

225

226 **POJO_8035_TestCase**

227

Testcase ID	POJO_8035_TestCase
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Test Assertion	JCI-TA-8035
Description	Tests that an implementation class with a javax.xml.ws.WebServiceProvider annotation which has a wsdlLocation property set, pointing to a WSDL document, has a component type with a <service/> element with an <interface.wsdl/> subelement set to the portType referenced by the value of the wsdlLocation property
Artifacts	POJO_8035_TestCase.java Test_POJO_8035.composite TestInvocation.wsdl TestClient_0002.composite ASM_0002_Client.java Service1.java Service1JWSWebServiceProvidersImpl.java
Expected output	Negative test: "exception"

228

229 **POJO_8036_TestCase**

230

Testcase ID	POJO_8036_TestCase
Test Assertion	JCI-TA-8036
Description	Tests that an implementation class annotated with any JAX-WS annotation has a component type with a <service/> element with a <binding.ws/> subelement with the @wsdlElement attribute set to point to a WSDL document that uses the SOAP/HTTP binding
Artifacts	POJO_8036_TestCase.java Test_POJO_8036.composite TestInvocation.wsdl TestClient_0002.composite ASM_0002_Client.java Service1.java Service1JWSWebServiceProvidersImpl.java
Expected output	Positive test: "POJO_8036 request service1 operation1 invoked";

231

232 **POJO_8037_TestCase**

233

Testcase ID	POJO_8037_TestCase
Test Assertion	JCI-TA-8037
Description	Tests that an implementation class annotated with a javax.xml.ws.BindingType annotation, where the value of the @BindingType annotation is http://www.w3.org/2003/05/soap/bindings/HTTP/, has a component type with a <binding.ws/> element with an @requires attribute which contains the intent "SOAP.v1_2"
Artifacts	POJO_8037_TestCase.java Test_POJO_8037.composite TestInvocation.wsdl TestClient_0002.composite ASM_0002_Client.java Service1.java Service1JWSBindingTypeImpl.java
Expected output	Negative test: "exception"

234

235

236 2.5 Section 9

237 POJO_9001_TestCase

238

Testcase ID	POJO_9001_TestCase
Test Assertion	JCI-TA-9001
Description	Tests that if an SCA <component/> element has an <implementation.java/> subelement, that the <implementation.java/> element conforms to the sca-implementation-java.xsd schema
Artifacts	POJO_9001_TestCase.java Test_POJO_9001.composite TestInvocation.wsdl TestClient_0002.composite Service1.java service1Impl.java
Expected output	Negative test: "exception"

239

240 **POJO_9002_TestCase**

241

Testcase ID	POJO_9002_TestCase
Test Assertion	JCI-TA-9002
Description	Tests that where a <component/> has an <implementation.java/> subelement with a @class attribute that has the fully qualified name of a Java class that is contained in the same contribution as the composite file containing the <component/>, that the Java class is found and instantiated
Artifacts	POJO_9002_TestCase.java Test_POJO_9002.composite TestInvocation.wsdl TestClient_0002.composite Service1.java x.service1Impl.java
Expected output	Positive test: "POJO_9002 request service1 operation1 invoked"

242

243 **POJO_9003_TestCase**

244

Testcase ID	POJO_9003_TestCase
Test Assertion	JCI-TA-9003
Description	Tests that if an <implementation.java/> element has a @class attribute which references a Java POJO implementation class and that class is imported by the contribution containing the composite from a second contribution, the version of the class from the second contribution is loaded and used even where a version of the same class is available in the contribution containing the composite
Artifacts	POJO_9003_TestCase.java Test_POJO_9003.composite TestInvocation.wsdl TestClient_0002.composite Service1.java x.service1.java (2 copies #1 = contribution POJO_General; #2 = contribution POJO_9003)
Expected output	Positive test: "POJO_9003 request service1 operation1"

245

246 **POJO_9004_TestCase**

247

Testcase ID	POJO_9004_TestCase
Test Assertion	JCI-TA-9004
Description	Tests that for an <implementation.java/> element in a composite file that specifies the name of a Java POJO class in its @class attribute, where a Java class of that fully qualified name exists a) in the same contribution (A) as the composite file b) in two other contributions in the Domain (B & C), both of which export the namespace of the Java class and where contribution A imports the namespace with <import.java/> specifying @location referencing only one of the Contributions (C) that the Java class is loaded from Contribution C.
Artifacts	POJO_9004_TestCase.java Test_POJO_9004.composite TestInvocation.wsdl TestClient_0002.composite Service1.java service1ContributionImpl.java contribution POJO_9004 contribution ContributionB contribution ContributionC
Expected output	Positive test: "POJO_9004 request service1 operation1 invoked contributionC"

248

249

250 **2.6 Section 10**

251 **POJO_10001_TestCase**

252

Testcase ID	POJO_10001_TestCase
Test Assertion	JCI-TA-10001
Description	Tests that where an sca-contribution.xml file contains multiple <import.java/> elements, that the value of the @package attribute of each element is unique across all the <import.java/> elements
Artifacts	POJO_10001_TestCase.java Test_POJO_10001.composite TestInvocation.wsdl TestClient_0002.composite

	TestComposite1.composite Service1.java service1Impl.java
Expected output	Negative test: "exception"

253

254 **POJO_10002_TestCase**

255

Testcase ID	POJO_10002_TestCase
Test Assertion	JCI-TA-10002
Description	Tests that where a contribution contains an SCA component that references classes from a Java package not contained in the contribution, and where the sca-contribution.xml contains an <import.java/> for that Java package, and there is a second contribution in the Domain that contains the classes of the package and which exports the package, that the SCA component can be instantiated and that it uses the Java classes from the second contribution.
Artifacts	POJO_10002_TestCase.java Test_POJO_10002.composite TestInvocation.wsdl TestClient_0002.composite Service1.java service1Impl.java
Expected output	Positive test: "POJO_10002 request service1 operation1 invoked"

256 **POJO_10003_TestCase**

257

Testcase ID	POJO_10003_TestCase
Test Assertion	JCI-TA-10003
Description	Tests that where a contribution A contains a component with an implementation from a Java package not found in contribution A and where the sca-contribution.xml has an <import.java/> for that package with a @location attribute pointing at a contribution B and contribution B both contains classes for that Java package and also exports that package, that the classes from contribution B satisfy the import from contribution A and that the component is instantiated.
Artifacts	POJO_10003_TestCase.java Test_POJO_10003.composite

	TestInvocation.wsdl TestClient_0002.composite Service1.java service1ContributionImpl.java <POJO_ContributionB>
Expected output	Positive test: "POJO_10003 request service1 operation1 invoked ContributionB"

258

259 **POJO_10004_TestCase**

260

Testcase ID	POJO_10004_TestCase
Test Assertion	JCI-TA-10004
Description	Tests that where a contribution A has references to Java artifacts from 2 different Java packages X and Y and where both of these packages are imported, and where package X is exported by a contribution B with a uses statement specifying a specific version of package Y, that import of Y in contribution A must import the same version of Y as specified in the uses attribute in contribution B.
Artifacts	POJO_10004_TestCase.java Test_POJO_10004.composite TestInvocation.wsdl TestClient_0002.composite Service1.java service1ContributionImpl.java <POJO_ContributionC> <POJO_ContributionD>
Expected output	Negative test: "exception"

261

262 **POJO_10005_TestCase**

263

Testcase ID	POJO_10005_TestCase
Test Assertion	JCI-TA-10005
Description	Tests that where a contribution has an sca-contribution.xml file with multiple <export.java/> elements, that the @package attribute value of each element is unique

Artifacts	POJO_10005_TestCase.java Test_POJO_10005.composite TestInvocation.wsdl TestClient_0002.composite TestComposite1.composite Service1.java service1Impl.java
Expected output	Negative test: "exception"

264

265 **POJO_10006_TestCase**

266

Testcase ID	POJO_10006_TestCase
Test Assertion	JCI-TA-10006
Description	Tests that where a contribution has an sca-contribution.xml file with an <export.java/> element which references a given Java package, that the files of that package are contained within the contribution
Artifacts	POJO_10006_TestCase.java Test_POJO_10006.composite TestInvocation.wsdl TestClient_0002.composite TestComposite1.composite Service1.java service1Impl.java
Expected output	Negative test: "exception"

267

268 **POJO_10007_TestCase**

269

Testcase ID	POJO_10007_TestCase
Test Assertion	JCI-TA-10007
Description	Tests that all Java classes loaded from a Contribution are loaded by a class loader that is unique to the contribution
Artifacts	POJO_10007_TestCase.java

	Test_POJO_10007.composite TestInvocation.wsdl TestClient_0002.composite TestComposite1.composite Service1.java x.service1ComplexClient.java x.serviceComplex1Impl.java y.ServiceComplex1.java z.ComplexClass.java <POJO_10007 contribution> <POJO_ContributionE contribution> <POJO_ContributionF contribution>
Expected output	Positive test: "POJO_10007 request service1 operation1 invoked service2 operation1 invoked Service interface classloader same as Impl class classloader ComplexClass classloader different from Impl class classloader"

270

271 **POJO_10008_TestCase**

272

Testcase ID	POJO_10008_TestCase
Test Assertion	JCI-TA-10008
Description	Tests that where a contribution A uses one or more Java classes that are imported from a contribution B, that contribution B's classloader is used to load the classes imported into contribution A
Artifacts	POJO_10008_TestCase.java Test_POJO_10008.composite TestComposite1.composite (contribution POJO_ContributionE) TestInvocation.wsdl TestClient_0002.composite Service1.java service1ComplexClient.java (contribution POJO_10008) x.serviceComplex1Impl.java y.ServiceComplex1.java z.ComplexClass.java <POJO_10008 contribution>

	<POJO_ContributionE contribution>
Expected output	Positive test: "POJO_10008 request service1 operation1 invoked classloaders set correctly"

273

274 **POJO_10009_TestCase**

275

Testcase ID	POJO_10009_TestCase
Test Assertion	JCI-TA-10009
Description	Tests that the thread context classloader of the thread used to invoke an operation of a Java POJO component implementation is the class loader of the contribution that contains the POJO implementation class.
Artifacts	POJO_10009_TestCase.java Test_POJO_10009.composite TestInvocation.wsdl TestClient_0002.composite TestComposite1.composite Service1.wsdl
Expected output	Positive test: "POJO_10009 request service1 operation1 invoked thread context classloader is correct"

276

277 **3 Catalog of Test Artifacts**

278

279 **3.1 Java Interfaces**

280

Name	Description
MultipleService.java	Service interface for checking multiple service invocations of a stateless Java implementation
Service1.java	Service1 interface
Service1NoRemotable.java	Service1 interface without a @Remotable annotation
Service1Superset.java	Interface with 2 operations - each with String as input and String response
ServiceComplex1.java	Interface with 2 operations - 1 with Java class as input and String response - 1 with void input and String response

281 **3.2 Java Implementation Classes**

282

Name	Description
All classes in the org.oasisopen.sca.test package unless noted	
incompleteOperationsImpl.java <POJO_2003>	1 service with Service1Superset. interface - operation2 is not implemented
multipleServiceClientImpl.java	1 service with Service1 interface 1 reference with ParallelService interface
multipleServiceImpl.java	1 service with MultipleService interface
plainClassImpl.java	1 service with interface defined by the class itself
service1AnnotatedConstructorImpl.java	1 service with Service1 interface one constructor annotated with @Constructor
service1AnnotatedParameterConstructorImpl.java	1 service with Service1 interface one constructor annotated with @Constructor and all parameters annotated with either @Property or

	@Reference
service1ClassLoaderCheckImpl.java	1 service with Service1 interface Performs a check on the ThreadContextClassLoader used to invoke a service operation
service1ComplexClientImpl.java <POJO_10008>	1 service with Service1 interface 1 reference with ServiceComplex1 interface
x.service1ComplexClientImpl.java <POJO_ContributionE>	1 service with Service1 interface 1 reference with ServiceComplex1 interface
x.serviceComplex1Impl <POJO_ContributionE>	1 service with ServiceComplex1 interface - operation1 checks the classloaders of the class, the interface class and the complex Java class - operation2 returns the hashCode of the class-loader of the class
service1CompositeImpl.java	1 service with Service1 interface The implementation is COMPOSITE scope - it holds state information from one invocation of Service1.operation1 to the next invocation - the input String from one invocation is returned in the result of the next invocation
x.service1ContributionImpl.java <POJO_ContributionD>	1 service with Service1 interface - operation1 responds with a string ending in the contribution name
service1ContributionImpl.java <POJO_ContributionC>	1 service with Service1 interface - operation1 responds with a string ending in the contribution name
service1ContributionImpl.java <POJO_ContributionB>	1 service with Service1 interface - operation1 responds with a string ending in the contribution name
service1ContributionImpl.java <POJO_9004>	1 service with Service1 interface - operation1 responds with a string ending in the name = "ContributionA"
service1CoordinatorImpl.java	1 service with Service1 interface 1 reference (1..n) with Service1 interface all configured wires get called when service1 operation1 is invoked This implementation acts as a coordinator between each of the invocations - it sends different data as input to each reference invocation

	- it records all the output data from all the invocations
x.service1Impl.java <POJO_9003> <POJO_General>	1 service with Service1 interface
service1Impl.java	1 service with Service1 interface
service1Impl3.java	1 service with Service1 interface 1 reference (1..n) with Service1 interface all configured wires get called when service1 operation1 is invoked
service1Impl6l.java	1 service with Service1 interface 1 reference (0..1) with Service1 interface configured wire gets called when service1 operation1 is invoked, if present otherwise, this implementation reports its absence
service1DupPropertySettersImpl.java <POJO_8013>	1 service with Service1 interface has a 2 setter methods annotated with @Property and the Javabeans names of these two methods is the same
service1DupReferenceSettersImpl.java <POJO_8014>	1 service with Service1 interface has a 2 setter methods annotated with @Reference and the Javabeans names of these two methods is the same
Service1JWSSOAPBindingImpl.java	1 service with Service1 interface class is annotated with @SOAPBinding
Service1JWSWebParamImpl.java	1 service with Service1 interface method is annotated with @WebParam
Service1JWSWebResultImpl.java	1 service with Service1 interface class is annotated with @WebResult
Service1JWSWebServiceEPImpl.java	1 service with Service1 interface class is annotated with @WebService with the EndpointInterface attribute set
Service1JWSWebServiceImpl.java	1 service with Service1 interface class is annotated with @WebService
Service1JWSWebServiceProviderImpl.java	1 service with Service1 interface class is annotated with @WebServiceProvider
Service1JWSWebServiceProviderWSDLImpl.java	1 service with Service1 interface

	class is annotated with <code>@WebServiceProvider</code> with the <code>wsdlLocation</code> attribute set
Service1JWSWebServiceWSDLImpl.java	1 service with Service1 interface class is annotated with <code>@WebService</code> with the <code>wsdlLocation</code> attribute set
Service1MultipleAnnotatedConstructors.java <POJO_5007>	1 service with Service1 interface multiple constructors annotated with <code>@Constructor</code> and all parameters annotated with either <code>@Property</code> or <code>@Reference</code>
service1MultipleConstructorAnnotations.java <POJO_5006>	1 service with Service1 interface multiple constructors annotated with <code>@Constructor</code>
service1NoArgConstructorImpl.java	1 service with Service1 interface has a no argument constructor
Service1NoRemotableImpl.java	1 service with Service1 interface class is annotated with <code>@Remotable</code>
Service1NoRemotableRefImpl.java	1 service with Service1 interface 1 reference with Service1NoRemotable interface reference setter is annotated with <code>@Remotable</code>
service1NoServiceAnnotationImpl.java	1 service with Service1 interface no <code>@Service</code> annotation implements a <code>@Remotable</code> interface
service1NoValidConstructor.java <POJO_5005>	1 service with Service1 interface only constructor is not invocable by SCA
service1PrivateConstructor.java <POJO_5001>	1 service with Service1 interface only constructor is private
service1PropertySetterImpl.java	1 service with Service1 interface setter is annotated with <code>@Property</code>
Service1ReferenceConstructorImpl.java	1 service with Service1 interface 1 reference with Service1 interface constructor parameter annotated with <code>@Reference</code>
Service1ReferencePolicySetsImpl.java	1 service with Service1 interface 1 reference with Service1 interface reference is annotated with <code>@PolicySets</code>
Service1ReferenceSetterImpl.java	1 service with Service1 interface

	1 reference with Service1 interface reference is set by a setter method
Service1RefWithNameImpl.java	1 service with Service1 interface 1 reference with Service1 interface @Reference has name value
Service1ServicePolicySetsImpl.java	1 service with Service1 interface class is annotated with @PolicySets
service1SupersetImpl.java	1 service with Service1Superset interface
Service1UnannotatedManyPropertySetterImpl.java	1 service with Service1 interface No @Service, @Property or @Reference annotations but a setter with a collection type that that does not have a @Remotable annotation
Service1UnannotatedMultiRefCollSetterImpl.java	1 service with Service1 interface 1 reference (1..n) with Service1 interface No @Service, @Property or @Reference annotations but a setter with a collection type that has a @Remotable annotation
Service1UnannotatedMultiRefSetterImpl.java	1 service with Service1 interface 1 reference (1..n) with Service1 interface No @Service, @Property or @Reference annotations but a setter with an array type that has a @Remotable annotation
service1UnannotatedPropertySetterImpl.java	1 service with Service1 interface No @Service, @Property or @Reference annotations but a setter with a type that that does not have a @Remotable annotation
service1UnannotatedRefSetterImpl.java	1 service with Service1 interface 1 reference with Service1 interface No @Service, @Property or @Reference annotations but a setter with a type that has a @Remotable annotation
Service1UnannotatedWithPolicySetsImpl.java	1 service with Service1 interface 1 reference with Service1 interface No @Service, @Property or @Reference annotations but a setter with a type that has a @Remotable annotation and class has a @PolicySets annotation
Service1UnannotatedWithRefPolicySetsImpl.java	1 service with Service1 interface 1 reference with Service1 interface

	No @Service, @Property or @Reference annotations but a public field with a type that has a @Remotable annotation and class has a @PolicySets annotation
Service1WithImplPolicySetsImpl.java	1 service with Service1 interface class is annotated with @PolicySets
Service1WithIntentImpl.java <POJO_8003>	1 service with Service1 interface class @Requires PropagatesTransaction
Service1WithIntentImpl.java <POJO_8012>	1 service with Service1 interface class @Requires managedTransaction
Service1WithRefIntentImpl.java <POJO_8008>	1 service with Service1 interface 1 reference with Service1 interface reference @Requires PropagatesTransaction
serviceImplClass.java	1 service with interface defined by the class itself that is compatible with Service 1 interface
z.ComplexClass.java <POJO_ContributionF>	ComplexClass class - used in a service operation with a Java class as its input parameter

283 3.3 WSDL Interface Files

284

Name	Description
Service1.wsdl	Service1 interface

285

286 4 Conformance

287 The artifacts contained in the sca-j-pojo-ci-1.1-testcases-package.zip file are considered to be authoritat-
288 iva and take precedence over the artifacts described in this document.

289 An implementation that claims to conform to this specification MUST be able to run all test cases in Sec-
290 tion 2 TestCases, producing the 'Expected Output'.

291

292 Appendix A Test Assertions for the SCA POJO 293 Component Implementation Specification

294 This document defines the Test Assertions for the SCA POJO Component Implementation Specification
295 Version 1.1 [JAVACI].

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

298 Appendix A.1 Example Test Assertion

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

301

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

302

303 **Assertion ID:** Is a unique ID for the test assertion. Its format starts with a 3 letter string that identifies the
304 specification to which it relates - "JCI" is for the SCA POJO Component Implementation specification.
305 This is followed by "-TA-" to indicate that this identifier is for a test assertion. This is then followed by a
306 unique 4 digit number.

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

309 **Target:** Identifies the target which is addressed by this assertion. This is typically some SCA document
310 element, or other SCA artefact but possibly could identify an SCA runtime and its behaviour.

311 **Prerequisites:** Defines any prerequisites for this test assertion. The prerequisites can be defined in
312 terms of one or more other test assertions that have to be true.

313 **Predicate:** The meat of the assertion - something that evaluates to true or false for the given target.

314 **Prescription Level:** Mandatory (for "MUST" requirements) or Preferred (for "SHOULD" requirements) or
315 Permitted (for "MAY" requirements).

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

318 Appendix A.2 Test Assertions for SCA POJO Component 319 Implementation Specification Section 2

320

321

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"> • Java Interface • Java Class • Java Interface generated from a WSDL document
Prescription Level	mandatory
Tags	"interface"

322

323

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"

324

325 **Appendix A.3 Test Assertions for SCA POJO Component**

326 **Implementation Specification Section 4**

327

Assertion ID	JCI-TA-4001
Source	[JCI40001]
Target	SCA Runtime
Prerequisites	The implementation class with an unannotated field that is introspected as a property and the Java type of the field is a JAXB annotated class
Predicate	The SCA Runtime converts the property value into an instance of the property's Java type as defined by the XML to Java mappings in the JAXB specification [JAX-B] with XML schema validation enabled.
Prescription	mandatory

Level	
Tags	"implementation" "property"

328

329

Assertion ID	JCI-TA-4002
Source	[JCI40001]
Target	SCA Runtime
Prerequisites	The implementation class with an unannotated setter method that is introspected as a property and the Java type of the field is a JAXB annotated class
Predicate	The SCA Runtime converts the property value into an instance of the property's Java type as defined by the XML to Java mappings in the JAXB specification [JAX-B] with XML schema validation enabled.
Prescription Level	mandatory
Tags	"implementation" "property"

330

331 **Appendix A.4 Test Assertions for SCA POJO Component**

332 **Implementation Specification Section 5**

333

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"

334

335

Assertion ID	JCI-TA-5002
Source	[JCI50004]
Target	SCA POJO component implementation class constructor
Prerequisites	a) SCA Java component implementation class has a constructor annotated with @Constructor b) SCA Java component implementation class has a constructor which is not annotated with @Constructor but where all its parameters are annot-

	<p>ated 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"

336

337

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"

338

339

Assertion ID	JCI-TA-5004
Source	[JCI50004]
Target	SCA POJO component implementation class constructor
Prerequisites	a) SCA Java component implementation class does not have a constructor

	<p>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"

340

341

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"

342

343

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"

344

345

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"

346

347 **Appendix A.5 Test Assertions for SCA POJO Component**
 348 **Implementation Specification Section 6**

349

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"

350

351

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"

352

353 **Appendix A.6 Test Assertions for SCA POJO Component**

354 **Implementation Specification Section 8**

355

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"

356

357

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 The interface class contains the @Remotable annotation
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"

358

359

Assertion ID	JCI-TA-8003
Source	[JCI80001]
Target	SCA POJO implementation class with a @Service annotation and 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"

360

361

Assertion ID	JCI-TA-8004
Source	[JCI80001]
Target	SCA POJO implementation class with zero @Service annotations, zero @Reference annotations and zero @Property 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"

362

363

Assertion ID	JCI-TA-8005
Source	[JCI80001]
Target	SCA POJO implementation class with zero @Service annotations, zero @Reference annotations and zero @Property 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	mandatory

Level	
Tags	“componentType” “service”

364

365

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”

366

367

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”

368

369

Assertion ID	JCI-TA-8008
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	mandatory

Level	
Tags	“componentType” “reference”

370

371

Assertion ID	JCI-TA-8009
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”

372

373

Assertion ID	JCI-TA-8010
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	Introspected <componentType> has a <property> element with a) @name set to the JavaBeans property name derived from the setter method name b) @type set to the JAXB mapping of the type of the parameter of the setter method
Prescription Level	mandatory
Tags	“componentType” “reference”

374

375

Assertion ID	JCI-TA-8011
Source	[JCI80001]
Target	SCA POJO implementation class with zero @Service annotations, 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 <componentType> has a <reference> 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) <interface.java/> subelement referencing the fully qualified name of the interface class</p>
Prescription Level	mandatory
Tags	"componentType" "reference"

376

377

Assertion ID	JCI-TA-8012
Source	[JCI80001]
Target	SCA POJO implementation class with zero @Service annotations, zero @Reference annotations and zero @Property annotations
Prerequisites	Class has a public field or setter with a type which is not a Java interface, array or parameterized java.util.Collection
Predicate	<p>Inspected <componentType> has a <property> element with:</p> <p>a) @name set to the name of the public field or setter method</p> <p>b) @type set to the JAXB mapping of the type of the field or setter</p> <p>c) @many set to "false":</p>
Prescription Level	mandatory
Tags	"componentType" "property"

378

379

Assertion ID	JCI-TA-8013
Source	[JCI80001]
Target	SCA POJO implementation class
Prerequisites	Implementation class has a @Requires attribute
Predicate	Inspected <componentType> has an <implementation.java/> subelement with @requires attribute present with a value equal to the value of the @Requires annotation
Prescription Level	mandatory
Tags	"componentType" "implementation"

380

381

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

382

383

Assertion ID	JCI-TA-8015
Source	[JCI80002]
Target	SCA POJO implementation class with 2 or more setter methods annotated with <code>@Reference</code>
Prerequisites	
Predicate	The JavaBeans property name for each reference setter method is unique.
Prescription Level	mandatory
Tags	"implementation" "reference"

384

385

Assertion ID	JCI-TA-8016
Source	[JCI80001]
Target	SCA POJO implementation class with a <code>@Service</code> annotation and <code>@Remotable</code> annotation
Prerequisites	<code>@Service</code> annotation has a single interface class in its value attribute and no name attribute The interface class does not contain the <code>@Remotable</code> annotation
Predicate	Inspected <componentType> has a <service> element with an <interface.java/> subelement where: <ul style="list-style-type: none"> - the <code>@interface</code> attribute set to the fully qualified name of the interface class in the value attribute of the <code>@Service</code> annotation - the <code>@remotable</code> attribute set to "true".
Prescription	mandatory

Level	
Tags	“componentType” “service”

386

387

Assertion ID	JCI-TA-8017
Source	[JCI80001]
Target	SCA POJO implementation class with a @Reference annotation
Prerequisites	<ol style="list-style-type: none"> 1) @Reference annotation annotates a field, setter or constructor parameter with an interface type 2) Interface type has no @Remotable annotation 3) @Remotable annotation on the same field, setter or constructor parameter as the @Reference annotation
Predicate	<p>Introspected <componentType> has a <reference> element with @multiplicity set to 0..1 and a child <interface.java> element with</p> <ul style="list-style-type: none"> - @interface attribute set to the fully qualified name of the interface type - @remotable attribute set to true
Prescription Level	mandatory
Tags	“componentType” “reference”

388

389

Assertion ID	JCI-TA-8018
Source	[JCI80001]
Target	SCA POJO implementation class with a @Reference annotation
Prerequisites	@Reference annotation annotates a setter which takes an interface type parameter
Predicate	Introspected <componentType> has a <reference> element with a child <interface.java> element with @interface attribute set to the fully qualified name of the interface type
Prescription Level	mandatory
Tags	“componentType” “reference”

390

391

Assertion ID	JCI-TA-8019
Source	[JCI80001]

Target	SCA POJO implementation class with a @Reference annotation
Prerequisites	@Reference annotation annotates a constructor parameter which is an interface type
Predicate	Introspected <componentType> has a <reference> element with a child <interface.java> element with @interface attribute set to the fully qualified name of the interface type
Prescription Level	mandatory
Tags	"componentType" "reference"

392

393

Assertion ID	JCI-TA-8020
Source	[JCI80001]
Target	SCA POJO implementation class with a @Service annotation and a @PolicySets annotation with one or more policySets declared
Prerequisites	
Predicate	Introspected <componentType> has a <service> element with @policySets attribute containing the set of policySets in the @PolicySets annotation
Prescription Level	mandatory
Tags	"componentType" "service"

394

395

Assertion ID	JCI-TA-8021
Source	[JCI80001]
Target	SCA POJO implementation class with a @Reference annotation and a @PolicySets annotation with one or more policySets declared
Prerequisites	
Predicate	Introspected <componentType> has a <reference> element with @policySets attribute containing the set of policySets in the @PolicySets annotation
Prescription Level	mandatory
Tags	"componentType" "reference"

396

397

Assertion ID	JCI-TA-8022
Source	[JCI80001]

Target	SCA POJO implementation class with zero @Service annotations, zero @Reference annotations, zero @Property annotations, and a @PolicySets annotation on the class itself with one or more policySets declared
Prerequisites	
Predicate	Introspected <componentType> has a <service> element with @policySets attribute containing the set of policySets in the @PolicySets annotation
Prescription Level	mandatory
Tags	"componentType" "service"

398

399

Assertion ID	JCI-TA-8023
Source	[JCI80001]
Target	SCA POJO implementation class with zero @Service annotations, zero @Reference annotations, zero @Property annotations, and a @PolicySets annotation on a public field, typed by an interface annotated with @Remotable, with one or more policySets declared
Prerequisites	
Predicate	Introspected <componentType> has a <reference> element with @policySets attribute containing the set of policySets in the @PolicySets annotation
Prescription Level	mandatory
Tags	"componentType" "reference"

400

401

Assertion ID	JCI-TA-8024
Source	[JCI80001]
Target	SCA POJO implementation class
Prerequisites	Implementation class has a @PolicySets attribute
Predicate	Introspected <componentType> has an <implementation.java/> subelement with @policySets attribute present with a value equal to the value of the @PolicySets annotation
Prescription Level	mandatory
Tags	"componentType" "implementation"

402

403

Assertion ID	JCI-TA-8025
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Source	[JCI80001]
Target	SCA POJO implementation class with zero @Service annotations, 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 array of interface classes which are annotated with @Remotable
Predicate	<p>Introspected <componentType> has a <reference> element with</p> <p>a) @name set to the JavaBeans property name derived from the setter method name</p> <p>b) @multiplicity is 1..n</p> <p>c) <interface.java/> subelement referencing the fully qualified name of the interface class</p>
Prescription Level	mandatory
Tags	"componentType" "reference"

404

405

Assertion ID	JCI-TA-8026
Source	[JCI80001]
Target	SCA POJO implementation class with zero @Service annotations, 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 a java.util.Collection which is parameterized by an interface class which is annotated with @Remotable
Predicate	<p>Introspected <componentType> has a <reference> element with</p> <p>a) @name set to the JavaBeans property name derived from the setter method name</p> <p>b) @multiplicity is 1..n</p> <p>c) <interface.java/> subelement referencing the fully qualified name of the interface class</p>
Prescription Level	mandatory
Tags	"componentType" "reference"

406

407

Assertion ID	JCI-TA-8027
Source	[JCI80001]
Target	SCA POJO implementation class with zero @Service annotations, zero @Reference annotations and zero @Property annotations

Prerequisites	Class has a public field or setter with a type which is not a Java interface, but is an array or parameterized (non-interface) java.util.Collection
Predicate	Introspected <componentType> has a <property> element with: a) @name set to the name of the public field b) @type set to the JAXB mapping of the type of the field or setter c) @many set to "true"
Prescription Level	mandatory
Tags	"componentType" "property"

408

409

Assertion ID	JCI-TA-8028
Source	[JCI80001]
Target	SCA POJO implementation class with javax.jws.WebService annotation
Prerequisites	
Predicate	Introspected <componentType> has a <service> element with: a) @name set to the value of the name property on the @WebService annotation b) <interface.java> child element with the @interface attribute set to the fully qualified name of the implementation class
Prescription Level	mandatory
Tags	"componentType" "service" "jax-ws"

410

411

Assertion ID	JCI-TA-8029
Source	[JCI80001]
Target	SCA POJO implementation class with javax.jws.WebService annotation
Prerequisites	EndpointInterface annotation property is set to a Java interface class
Predicate	Introspected <componentType> has a <service> element with: a) @name set to the value of the name property on the @WebService annotation b) <interface.java> child element with the @interface attribute set to the value of the endpointInterface property
Prescription Level	mandatory
Tags	"componentType" "service" "jax-ws"

412

413

Assertion ID	JCI-TA-8030
Source	[JCI80001]
Target	SCA POJO implementation class with javax.jws.WebService annotation
Prerequisites	WsdLocation property is set and points to a WSDL document
Predicate	<p>Introspected <componentType> has a <service> element with:</p> <p>a) @name set to the value of the name property on the @WebService annotation</p> <p>b) <interface.wsdl> child element with the @interface attribute set to the portType referenced by the value of the wsdlLocation property</p>
Prescription Level	mandatory
Tags	"componentType" "service" "jax-ws"

414

415

Assertion ID	JCI-TA-8031
Source	[JCI80001]
Target	SCA POJO implementation class with javax.jws.WebParam annotation that has the header property set to "true"
Prerequisites	
Predicate	Introspected <componentType> has a <service> element with a @requires attribute set to "SOAP".
Prescription Level	mandatory
Tags	"componentType" "service" "jax-ws"

416

417

Assertion ID	JCI-TA-8032
Source	[JCI80001]
Target	SCA POJO implementation class with javax.jws.WebResult annotation that has the header property set to "true"
Prerequisites	
Predicate	Introspected <componentType> has a <service> element with a @requires attribute set to "SOAP".
Prescription Level	mandatory

Tags	"componentType" "service" "jax-ws"
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418

419

Assertion ID	JCI-TA-8033
Source	[JCI80001]
Target	SCA POJO implementation class with javax.jws.soap.SOAPBinding annotation
Prerequisites	
Predicate	Introspected <componentType> has a <service> element with a @requires attribute set to "SOAP".
Prescription Level	mandatory
Tags	"componentType" "service" "jax-ws"

420

421

Assertion ID	JCI-TA-8034
Source	[JCI80001]
Target	SCA POJO implementation class with javax.xml.ws.WebServiceProvider annotation
Prerequisites	
Predicate	Introspected <componentType> has a <service> element with an <interface.java> child element with the @interface attribute set to the fully qualified name of the implementation class
Prescription Level	mandatory
Tags	"componentType" "service" "jax-ws"

422

423

Assertion ID	JCI-TA-8035
Source	[JCI80001]
Target	SCA POJO implementation class with javax.xml.ws.WebServiceProvider annotation
Prerequisites	WsdllLocation property is set and points to a WSDL document
Predicate	Introspected <componentType> has a <service> element with an <interface.wsdl> child element with the @interface attribute set to the portType referenced by the value of the wsdlLocation property
Prescription Level	mandatory

Tags	"componentType" "service" "jax-ws"
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424

425

Assertion ID	JCI-TA-8036
Source	[JCI80001]
Target	SCA POJO implementation class with any JAX-WS annotation
Prerequisites	
Predicate	Introspected <componentType> has a <service> element with a <binding.ws> child element with the @wsdlElement attribute set to point to a WSDL document that uses the SOAP/HTTP binding (http://schemas.xmlsoap.org/wsdl/soap/http)
Prescription Level	mandatory
Tags	"componentType" "service" "jax-ws"

426

427

Assertion ID	JCI-TA-8037
Source	[JCI80001]
Target	SCA POJO implementation class with javax.xml.ws.BindingType annotation
Prerequisites	The value of the @BindingType annotation is http://www.w3.org/2003/05/soap/bindings/HTTP/
Predicate	Introspected <componentType> has a <service> element with a <binding.ws> child element with the @requires attribute set to "SOAP.v1_2"
Prescription Level	mandatory
Tags	"componentType" "service" "jax-ws"

428

429 **Appendix A.7 Test Assertions for SCA POJO Component** 430 **Implementation Specification Section 9** 431

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"

432

433

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

434

435

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

436

437

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 <import.java/> 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"

438

439

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"
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441

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"

442

443 **Appendix A.8 Test Assertions for SCA POJO Component**

444 **Implementation Specification Section 10**

445

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"

446

447

Assertion ID	JCI-TA-10002
Source	[JCI100002]
Target	Java package with version referenced by <import.java/>
Prerequisites	<ul style="list-style-type: none"> 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 exported by another contribution (Contribution B) in the SCA Domain c) The SCA component is instantiated
Predicate	The Java classes in the package that is loaded, satisfy the <import.java/>

Prescription Level	mandatory
Tags	"import" "resolution"

448

449

Assertion ID	JCI-TA-10003
Source	[JCI100002]
Target	Java package with version referenced by <import.java/>
Prerequisites	<p>a) An SCA component and implementation that uses the Java package specified in the <import.java/> element contained with Contribution A</p> <p>b) The Java implementation class is contained within contribution (Contribution B) in the SCA Domain</p> <p>c) The @location attribute on <import.java/> points to Contribution B</p> <p>c) The SCA component is instantiated</p>
Predicate	The Java classes in the package that is loaded from contribution B, satisfy the <import.java/>
Prescription Level	mandatory
Tags	"import" "resolution"

450

451

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

452

453

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”

454

455

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”

456

457

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”

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Assertion ID	JCI-TA-10008
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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"

460

461

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"

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463

Appendix B Cross Mapping of Normative Statements to Test Assertions

464

465 This section contains a list of normative statements in the SCA POJO Component Implementation spe-
466 cification and the corresponding Test Assertions.

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

467

468

Conformance statement	Test Assertion
JCI40001	JCI-TA-4001 JCI-TA-4002

469

470

Conformance statement	Test Assertion
JCI50001	JCI-TA-5001
JCI50002	JCI-TA-5006
JCI50004	JCI-TA-5002 JCI-TA-5003 JCI-TA-5004 JCI-TA-5005
JCI50005	JCI-TA-5007

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

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474

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, JCI-TA-8008, JCI-TA-8009, JCI-TA-8010, JCI-TA-8011, JCI-TA-8012, JCI-TA-8013, JCI-TA-8016, JCI-TA-8017, JCI-TA-8018, JCI-TA-8019, JCI-TA-8020, JCI-TA-8021, JCI-TA-8022, JCI-TA-8023, JCI-TA-8024, JCI-TA-8025, JCI-TA-8026, JCI-TA-8027, JCI-TA-8028, JCI-TA-8029, JCI-TA-8030, JCI-TA-8031, JCI-TA-8032, JCI-TA-8033, JCI-TA-8034, JCI-TA-8035, JCI-TA-8036, JCI-TA-8037
JCI8002	JCI-TA-8014 JCI-TA-8015

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476

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

477

478

Conformance statement	Test Assertion
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
JCI100009	JCI-TA-10009
JCI100010	JCI-TA-10007
JCI100011	JCI-TA-10008

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Appendix C Cross Mapping of Test Assertions to TestCases

Test Assertion	Test Cases
JCI-TA-2001	POJO_2001_TestCase
JCI-TA-2002	POJO_2002_TestCase

483

Test Assertion	Test Cases
JCI-TA-4001	POJO_4001_TestCase
JCI-TA-4002	POJO_4002_TestCase

484

Test Assertion	Test Cases
JCI-TA-5001	POJO_5001_TestCase
JCI-TA-5002	POJO_5002_TestCase
JCI-TA-5003	POJO_5003_TestCase
JCI-TA-5004	POJO_5004_TestCase
JCI-TA-5005	POJO_5005_TestCase
JCI-TA-5006	POJO_5006_TestCase
JCI-TA-5007	POJO_5007_TestCase

485

Test Assertion	Test Cases
JCI-TA-6001	POJO_6001_TestCase
JCI-TA-6002	POJO_6002_TestCase

486

487

Test Assertion	Test Cases
JCI-TA-8001	POJO_8001_TestCase
JCI-TA-8002	POJO_8002_TestCase
JCI-TA-8003	POJO_8003_TestCase
JCI-TA-8004	POJO_8004_TestCase

JCI-TA-8005	POJO_8005_TestCase
JCI-TA-8006	POJO_8006_TestCase
JCI-TA-8007	POJO_8015_TestCase
JCI-TA-8008	POJO_8007_TestCase
JCI-TA-8009	POJO_8008_TestCase
JCI-TA-8010	POJO_8009_TestCase
JCI-TA-8011	POJO_8010_TestCase
JCI-TA-8012	POJO_8011_TestCase
JCI-TA-8013	POJO_8012_TestCase
JCI-TA-8014	POJO_8013_TestCase
JCI-TA-8015	POJO_8014_TestCase
JCI-TA-8016	POJO_8016_TestCase
JCI-TA-8017	POJO_8017_TestCase
JCI-TA-8018	POJO_8018_TestCase
JCI-TA-8019	POJO_8019_TestCase
JCI-TA-8020	POJO_8020_TestCase
JCI-TA-8021	POJO_8021_TestCase
JCI-TA-8022	POJO_8022_TestCase
JCI-TA-8023	POJO_8023_TestCase
JCI-TA-8024	POJO_8024_TestCase
JCI-TA-8025	POJO_8025_TestCase
JCI-TA-8026	POJO_8026_TestCase
JCI-TA-8027	POJO_8027_TestCase
JCI-TA-8028	POJO_8028_TestCase
JCI-TA-8029	POJO_8029_TestCase
JCI-TA-8030	POJO_8030_TestCase
JCI-TA-8031	POJO_8031_TestCase
JCI-TA-8032	POJO_8032_TestCase
JCI-TA-8033	POJO_8033_TestCase
JCI-TA-8034	POJO_8034_TestCase

JCI-TA-8035	POJO_8035_TestCase
JCI-TA-8036	POJO_8036_TestCase
JCI-TA-8037	POJO_8037_TestCase

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489

Test Assertion	Test Cases
JCI-TA-9001	POJO_9001_TestCase
JCI-TA-9002	POJO_9002_TestCase
JCI-TA-9003	POJO_9003_TestCase
JCI-TA-9004	POJO_9004_TestCase
JCI-TA-9005	untestable with current mandatory requirements
JCI-TA-9006	no obvious test available

490

491

Test Assertion	Test Cases
JCI-TA-10001	POJO_10001_TestCase
JCI-TA-10002	POJO_10002_TestCase
JCI-TA-10003	POJO_10003_TestCase
JCI-TA-10004	POJO_10004_TestCase
JCI-TA-10005	POJO_10005_TestCase
JCI-TA-10006	POJO_10006_TestCase
JCI-TA-10007	POJO_10007_TestCase
JCI-TA-10008	POJO_10008_TestCase
JCI-TA-10009	POJO_10009_TestCase

492

493 **Appendix D Acknowledgments**

494 The following individuals have participated in the creation of this specification and are gratefully acknow-
495 ledged

Participants:

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Appendix E Revision History

Revision	Date	Editor	Changes Made
1	09/25/09	Mike Edwards	Initial version
4	10/02/09	Dave Booz	Section 3 testcases
5	10/06/09	Dave Booz	Section 8, 8001-8005
7	10/07/09	Dave Booz	Complete Section 8
WD01	11/12/09	Mike Edwards	All sections complete
wd02	11/18/09	Mike Edwards	Added testcases in 8xxx range
wd03	07/26/10	Mike Edwards	Corrected cross-mapping tables Added testcases POJO_8015, POJO_8016
wd04			
wd05	07/29/10	Mike Edwards	Added testcases: POJO_8027_TestCase POJO_8028_TestCase POJO_8029_TestCase POJO_8030_TestCase POJO_8031_TestCase POJO_8032_TestCase
wd06			
Wd07	13/10/10	Bryan Aupperle	Fix cut/paste errors in test cases 8033-8036 Update artifact tables
wd08	10/19/10	Mike Edwards	Apply Issue 214: - new testcase POJO_8037_TestCase
csdpr01	11/08/10	TC Admin	CSD01 & Public Review 01
wd011	06/27/11	Mike Edwards	Issue 222 - Section 1 & Frontmatter (Abstract)
wd12	06/27/11	Mike Edwards	Issue 236 - merge TestAssertions document into the Testcases document - major changes across the document.
wd13	08/15/11	Mike Edwards	All changes accepted Frontmatter and references updated for cds02 draft