



# TestCases for the SCA Assembly Model Version 1.1 Specification

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**Technical Committee:**

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

**Chair(s):**

Martin Chapman, Oracle  
Mike Edwards, IBM

**Editor(s):**

Mike Edwards, IBM  
Eric Wells, Hitachi  
Plamen Pavlov, SAP

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

**Abstract:**

This document defines the TestCases for the SCA Assembly specification.

The TestCases represent a series of tests that an SCA runtime must pass in order to claim conformance to the requirements of the SCA Assembly specification.

**Status:**

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

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# 1 Introduction

This document defines the TestCases for the SCA Assembly specification.

The tests described in this document are related to the Test Assertions described in the [SCA Assembly Test Assertions document \[ASM-TA\]](#).

## 1.1 TestCase Structure

The SCA Assembly 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) should the SCA runtime under test not support Web services as a binding technology.

### Test Application

Each Test Application consists of one top level SCA Composite file and one or more other SCA Composite files and their associated artifacts (implementations, interface files), plus test client invocation application described above.

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

71 All of the components in the top level composite are implemented by composites. These second level  
72 composites then contain typically one component, implemented using a specific technology such as Java  
73 POJO or a BPEL process. In some cases the implementation may be a third level composite.

74 The application is structured so that alternative technologies can be used. For example, replacing the  
75 contents of the second-level or third-level composites allows different implementation technologies to be  
76 tested – eg BPEL scripts or C++ classes may be used instead of Java classes. Similarly, the binding  
77 used to connect from the top level composite to the client application may be changed from Web services  
78 to JMS if required, simply by changing the binding on the <service/> of the top level composite.

79 Which implementation language to use for test artifacts is controlled by a system variable or environment  
80 variable which is read by the test client application, with the name "OASIS\_TESTENV\_IMPL\_LANG".  
81 This variable can have one of the following values:

- 82 • "Java" - for Java implementations
- 83 • "BPEL" - for WS\_BPEL process implementations
- 84 • "CPP" - for C++ implementations

85 The testcases are designed so that the range of implementation types can be expanded

## 86 Test Artifacts Organization

87 Note that the design of these testcases promotes reuse of artifacts between testcases, so that many  
88 testcases share components. For example, components implementing simple invocable services are all  
89 implemented using a single parameterized implementation artifact.

90 All the test artifacts are contained in a number of Contributions, which are simply filesystem directories  
91 which are all peers in the filesystem hierarchy. The names of the directories are the names of the  
92 Contributions and the names are significant. The names of Contributions containing implementation type  
93 specific artifacts (such as Java classes) are also specially structured to allow for replacement of one type  
94 of implementation artifact with another.

95 Broadly, Contribution names are as follows:

- 96 • ASM\_nnnn - a contribution that is specific for a particular testcase, where "nnnn" is the number of  
97 the testcase. Often this is required because a particular testcase involves artifacts that contain  
98 errors that are statically checkable - an SCA runtime is permitted to reject such artifacts when  
99 they are contributed and deployed and it is important to ensure that contributions containing  
100 deliberate errors for one testcase do not interfere with the operation of other testcases.
- 101 • ASM\_nnnn\_Java - a contribution for a specific testcase where there is a need for language  
102 specific artifacts that relate to that testcase alone
- 103 • General - a shared contribution containing implementation type independent artifacts that can be  
104 used by many testcases.
- 105 • General\_Java - a shared contribution containing implementation type dependent artifacts for  
106 Java POJOs. These artifacts can include both Java classes and also SCA composites that  
107 directly use Java classes.

- 108 • General\_BPEL - a shared contribution containing implementation type dependent artifacts for  
109 BPEL processes. These artifacts can include both BPEL processes and also SCA composites  
110 that directly use BPEL processes.
- 111 • Contribution1, Contribution2, etc - contributions that are used by various testcases that are  
112 testing the handling of SCA contributions

113 Note that the names of Contributions containing implementation specific artifacts ends with a name that is  
114 specific to the implementation type - so "\_Java" is used for Java implementations, "\_BPEL" is used for  
115 BPEL implementations, "\_CPP" is used for C++ implementations (and so on). Note that the name  
116 following the underscore matches the name used in the "OASIS\_TESTENV\_IMPL\_LANG" variable used  
117 to control execution of the test client. The concept is that where there is an implementation type specific  
118 contribution, each implementation type must provide its own versions of the same basic artifacts.  
119 Typically, this means that each contribution must contain the same set of Composites, but that the  
120 implementation type dependent artifacts that these composites use will differ from implementation type to  
121 implementation type.

122 Basically, the setting of the variable is used to select the suffix used for implementation type dependent  
123 contributions. If the variable is set to "Java" then the contribution "General\_Java" is selected, whereas if  
124 the variable is set to "BPEL", the contribution "General\_BPEL" is selected.

## 125 1.2 Namespaces and Java Package Names

126 The SCA Assembly testcase suite makes use of some XML namespaces and Java package names, as  
127 follows:

### 128 SCA Artifact Namespaces

129 These apply to artifacts such as Composites

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

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

### 132 WSDL Namespace

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

### 134 Java Package name

135 For Java interface classes and for Java implementation classes

136 `org.oasisopen.sca.test`

## 137 1.3 Terminology

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

## 141 1.4 Normative References

- 142 [RFC 2119] S. Bradner. *Key words for use in RFCs to Indicate Requirement Levels*. IETF  
143 RFC 2119, March 1997.  
144 <http://www.ietf.org/rfc/rfc2119.txt>

145       **[ASM-TA]**           OASIS Committee Draft 01, "Test Assertions for the SCA Assembly Model  
146                           Version 1.1 Specification" June 2009 [http://docs.oasis-open.org/opencsa/sca-](http://docs.oasis-open.org/opencsa/sca-assembly/sca-assembly-1.1-test-assertions-cd01.pdf)  
147                           [assembly/sca-assembly-1.1-test-assertions-cd01.pdf](http://docs.oasis-open.org/opencsa/sca-assembly/sca-assembly-1.1-test-assertions-cd01.pdf)

148   **1.5 Non-normative References**

149       [TBD]                [TBD]

150



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151 **2 TestCases**

152 **2.1 Section 4**

153 **ASM\_4001\_TestCase**

154

Testcase ID	ASM_4001_TestCase
Test Assertion	ASM-TA-4001
Description	Tests that the @constrainingType attribute value of a <componentType/> element is the QName of a <constrainingType/> element
Artifacts	ASM_4001_TestCase.java Test_ASM_4001.composite TestInvocation.wsdl TestClient_0002.composite TestComposite42.composite TestComposite42.constraint Service1.wsdl
Expected output	Positive test: "ASM_4001 request service1 operation1 invoked"

155 **ASM\_4002\_TestCase**

156

Testcase ID	ASM_4002_TestCase
Test Assertion	ASM-TA-4002
Description	Tests that the @name attribute value of a <service/> element of a <componentType/> is not the same as the @name attribute value of any other <service/> of the <componentType/>
Artifacts	ASM_4002_TestCase.java Test_ASM_4002.composite TestInvocation.wsdl TestClient_0002.composite TestComposite16.composite Service1.wsdl
Expected output	Negative test: "exception"

157 **ASM\_4003\_TestCase**

158

Testcase ID	ASM_4003_TestCase
Test Assertion	ASM-TA-4003
Description	Tests that the @name attribute value of a <reference/> element of a <componentType/> is not the same as the @name attribute value of any other <reference/> of the <componentType/>
Artifacts	ASM_4003_TestCase.java Test_ASM_4003.composite TestInvocation.wsdl TestClient_0002.composite TestComposite19.composite Service1.wsdl
Expected output	Negative test: "exception"

159 **ASM\_4004\_TestCase**

160

Testcase ID	ASM_4004_TestCase
Test Assertion	ASM-TA-4004
Description	Tests that the @name attribute value of a <property/> element of a <componentType/> is not the same as the @name attribute value of any other <property/> of the <componentType/>
Artifacts	ASM_4004_TestCase.java Test_ASM_4004.composite TestInvocation.wsdl TestClient_0002.composite TestComposite1.composite TestComposite26.composite
Expected output	Negative test: "exception"

161

162 **ASM\_4005\_TestCase**

163

Testcase ID	ASM_4005_TestCase
Test Assertion	ASM-TA-4006

Description	Tests that the @type attribute value of a <property/> element of a <componentType/> is the QName of an XML schema type
Artifacts	ASM_4005_TestCase.java Test_ASM_4005.composite TestInvocation.wsdl TestClient_0002.composite TestComposite1.composite TestComposite43.composite Service1.wsdl
Expected output	Positive test: "ASM_4005 request service1 operation1 invoked service2 operation1 invoked "

164

## ASM\_4006\_TestCase

165

166

Testcase ID	ASM_4006_TestCase
Test Assertion	ASM-TA-4007
Description	Tests that the @element attribute value of a <property/> element of a <componentType/> is the QName of an XSD global element
Artifacts	ASM_4006_TestCase.java Test_ASM_4006.composite TestInvocation.wsdl TestClient_0002.composite TestComposite1.composite TestComposite44.composite Service1.wsdl
Expected output	Positive test: "ASM_4006 request service1 operation1 invoked service2 operation1 invoked "

167

## ASM\_4007\_TestCase

168

169

Testcase ID	ASM_4007_TestCase
Test Assertion	ASM-TA-4009 ASM-TA-4010

Description	Tests that a <property/> element of a <componentType/> does not have both @element and @type attributes set at the same time
Artifacts	ASM_4007_TestCase.java Test_ASM_4007.composite TestInvocation.wsdl TestClient_0002.composite TestComposite1.composite TestComposite45.composite Service1.wsdl
Expected output	Negative test: "exception"

170

171 **ASM\_4008\_TestCase**

172

Testcase ID	ASM_4008_TestCase
Test Assertion	ASM-TA-4011
Description	Tests that a <property/> element of a <componentType/> which has @mustSupply="true" must have a value specified for that property in the <component/> that uses the <implementation/> with that <componentType/>
Artifacts	ASM_4008_TestCase.java Test_ASM_4008.composite TestInvocation.wsdl TestClient_0002.composite TestComposite1.composite TestComposite46.composite Service1.wsdl
Expected output	Negative test: "exception"

173

174 **2.2 Section 5**

175 **ASM\_5002\_TestCase**

176

Testcase ID	ASM_5002_TestCase
Test Assertion	ASM-TA-5025 ( + ASM-TA-5031 as it uses simple property values) ( + ASM-TA-4008 as it involves a component property value being used by the runtime implementation instance)
Description	Tests that a component with a single reference of multiplicity 1..1 with @target attribute set to the service of a second component in the same composite, where the service interface is compatible with the reference interface, can successfully invoke the target service.
Artifacts	ASM_5002_TestCase.java Test_ASM_5002.composite TestInvocation.wsdl TestClient_0002.composite TestComposite1.composite Service1.wsdl
Expected output	Positive test: "ASM_5002 request service1 operation1 invoked"

177

178 **ASM\_5003\_TestCase**

179

Testcase ID	ASM_5003_TestCase
Test Assertion	ASM-TA-5026
Description	Tests that a component with a single reference of multiplicity 1..n with @target attribute having 3 entries (the service of three other components in the same composite, where the service interface is compatible with the reference interface), can successfully invoke all the target services.
Artifacts	ASM_5003_TestCase.java Test_ASM_5003.composite TestInvocation.wsdl TestClient_5003.composite TestComposite1.composite Service1.wsdl

Expected output	Positive test: "ASM_5003 request service1 operation1 invokedservice2 operation1 invoked service3 operation1 invoked"
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180

## 181 **ASM\_5004\_TestCase**

182

Testcase ID	ASM_5004_TestCase
Test Assertion	ASM-TA-5027
Description	Tests that a component with a single reference of multiplicity 1..1 with @target attribute having 3 entries (the service of three other components in the same composite, where the service interface is compatible with the reference interface), has an invalid configuration and cannot run.
Artifacts	ASM_5004_TestCase.java Test_ASM_5004.composite TestInvocation.wsdl TestClient_0002.composite TestComposite1.composite Service1.wsdl
Expected output	Negative test: "exception"

183

## 184 **ASM\_5005\_TestCase**

185

Testcase ID	ASM_5005_TestCase
Test Assertion	ASM-TA-5001
Description	Tests that a component with multiple <service/> elements must have unique @name attributes for each service
Artifacts	ASM_5005_TestCase.java Test_ASM_5005.composite TestInvocation.wsdl TestClient_0002.composite TestComposite2.composite Service1.wsdl
Expected output	Negative test: "exception"

186

187 **ASM\_5006\_TestCase**

188

Testcase ID	ASM_5006_TestCase
Test Assertion	ASM-TA-5002
Description	Tests that the @name attribute of a <service/> element of a <component/> must match the @name attribute of a <service/> element in the componentType of the <implementation/> used by the <component/>
Artifacts	ASM_5006_TestCase.java Test_ASM_5006.composite TestInvocation.wsdl TestClient_0002.composite TestComposite1.composite Service1.wsdl
Expected output	Negative test: "exception"

189

190 **ASM\_5007\_TestCase**

191

Testcase ID	ASM_5007_TestCase
Test Assertion	ASM-TA-5003
Description	Test that the @name attribute of a <reference/> element of a component is not equal to the @name attribute of any other <reference/> element of the same component
Artifacts	ASM_5007_TestCase.java Test_ASM_5007.composite TestInvocation.wsdlTestClient_0002.composite TestComposite3.composite TestComposite1.composite Service1.wsdl
Expected output	Negative test: "exception"

192

193

194

195 **ASM\_5008\_TestCase**

196

Testcase ID	ASM_5008_TestCase
Test Assertion	ASM-TA-5004
Description	Tests that the @name attribute of a <reference/> element of a component is equal to the @name attribute of a <reference/> element of the <componentType/> of the <implementation/> of the <component/>
Artifacts	ASM_5008_TestCase.java Test_ASM_5008.composite TestInvocation.wsdl TestClient_0002.composite TestComposite4.composite TestComposite1.composite Service1.wsdl
Expected output	Negative test: "exception"

197

198

199 **ASM\_5009\_TestCase**

200

Testcase ID	ASM_5009_TestCase
Test Assertion	ASM-TA-5005
Description	Tests that the @name attribute of a <component/> element in a <composite/> is not the same as the @name attribute of a second component in the same <composite/>
Artifacts	ASM_5009_TestCase.java Test_ASM_5009.composite TestInvocation.wsdl TestClient_0002.composite TestComposite1.composite Service1.wsdl
Expected output	Negative test: "exception"

201



202 **ASM\_5010\_TestCase**

203

Testcase ID	ASM_5010_TestCase
Test Assertion	ASM-TA-5006
Description	Tests that the interface specified by the <interface/> child element of a <service/> element is a compatible subset of the interface declared for the <service/> element with the same @name attribute in the <componentType/> of the <implementation/> of the <component/> parent of the <service/>
Artifacts	ASM_5010_TestCase.java Test_ASM_5010.composite TestInvocation.wsdl TestClient_0002.composite TestComposite5.composite Service1.wsdl
Expected output	Negative test: "exception"

204

205

206 **ASM\_5011\_TestCase**

207

Testcase ID	ASM_5011_TestCase
Test Assertion	ASM-TA-5010
Description	Tests that the multiplicity of a <reference/> element of a <component/> can be 1..1 where the multiplicity of the equivalent <reference/> element in the <componentType/> of the <implementation/> of the <component/> is 1..n
Artifacts	ASM_5011_TestCase.java Test_ASM_5011.composite TestInvocation.wsdl TestClient_0002.composite TestComposite1.composite TestComposite6.composite ASM_0002_Client.java Service1.wsdl
Expected output	Positive test: "ASM_5011 request service1 operation1 invoked service2 operation1"

	invoked”
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208

209 **ASM\_5012\_TestCase**

210

Testcase ID	ASM_0012_TestCase
Test Assertion	ASM-TA-5011
Description	Tests that the multiplicity of a <reference/> element of a <component/> can be any one of 0..1, 1..1, 0..n, 1..n where the multiplicity of the equivalent <reference/> element in the <componentType/> of the <implementation/> of the <component/> is 0..n
Artifacts	ASM_5012_TestCase.java Test_ASM_5012.composite TestInvocation.wsdl TestClient_0002.composite TestComposite1.composite TestComposite7.composite Service1.wsdl
Expected output	Positive test: “ASM_5012 request service1 operation1 invoked service2 operation1 invoked service3 operation1 invoked service4 operation1 invoked service5 operation1 invoked”

211

212

213 **ASM\_5013\_TestCase**

214

Testcase ID	ASM_5013_TestCase
Test Assertion	ASM-TA-5012
Description	Tests that the multiplicity of a <reference/> element of a <component/> is 1..1 where the multiplicity of the equivalent <reference/> element in the <componentType/> of the <implementation/> of the <component/> is 1..1
Artifacts	ASM_5013_TestCase.java Test_ASM_5013.composite TestInvocation.wsdl TestClient_0002.composite TestComposite1.composite TestComposite4.composite

	Service1.wsdl
Expected output	Positive test: "ASM_5013 request service1 operation1 invoked service2 operation1 invoked"

215

216

217 **ASM\_5014\_TestCase**

218

Testcase ID	ASM_5014_TestCase
Test Assertion	ASM-TA-5012
Description	Tests that the multiplicity of a <reference/> element of a <component/> is 0..n where the multiplicity of the equivalent <reference/> element in the <componentType/> of the <implementation/> of the <component/> is 1..1
Artifacts	ASM_5014_TestCase.java Test_ASM_5014.composite TestInvocation.wsdl TestClient_0002.composite TestComposite1.composite TestComposite4.composite ASM_0002_Client.java Service1.wsdl
Expected output	Negative test: "exception"

219

220

221 **ASM\_5015\_TestCase**

222

Testcase ID	ASM_5015_TestCase
Test Assertion	ASM-TA-5013
Description	Tests that the multiplicity of a <reference/> element of a <component/> is 1..1 where the multiplicity of the equivalent <reference/> element in the <componentType/> of the <implementation/> of the <component/> is 0..1
Artifacts	ASM_5015_TestCase.java Test_ASM_5015.composite TestInvocation.wsdl

	TestClient_0002.composite TestComposite1.composite TestComposite8.composite Service1.wsdl
Expected output	Positive test: "ASM_5015 request service1 operation1 invoked service2 operation1 invoked"

223

224

## 225 **ASM\_5016\_TestCase**

226

Testcase ID	ASM_5016_TestCase
Test Assertion	ASM-TA-5016
Description	Tests that the interface declared by the <interface/> child element of a <reference/> of a <component/> is a compatible superset of the interface declared on the corresponding <reference/> of the componentType of the <implementation/> of the <component/>
Artifacts	ASM_5016_TestCase.java Test_ASM_5016.composite TestInvocation.wsdl TestClient_0002.composite TestComposite4.composite TestComposite9.composite Service1.wsdl Service1Superset.wsdl
Expected output	Positive test: "ASM_5016 request service1 operation1 invoked service2 operation1 invoked"

227

228

## 229 **ASM\_5017\_TestCase**

230

Testcase ID	ASM_5017_TestCase
Test Assertion	ASM-TA-5017
Description	Tests that where a <reference/> of a <component/> has no <binding/>

	child element, but the corresponding <reference/> element in the componentType does have a binding child element, the <binding/> from the componentType is used for the reference
Artifacts	ASM_5017_TestCase.java Test_ASM_5017.composite TestInvocation.wsdl TestClient_0002.composite TestComposite1.composite TestComposite10.composite ASM_0002_Client.java Service1.wsdl
Expected output	Positive test: "ASM_5017 request service1 operation1 invoked service2 operation1 invoked"

231

232 **ASM\_5018\_TestCase**

233

Testcase ID	ASM_5018_TestCase
Test Assertion	ASM-TA-5018 ASM-TA-5024
Description	Tests that where a <reference/> of a <component/> has a <binding/> child element and the corresponding <reference/> element in the componentType has a binding child element, the <binding/> from the <reference/> is used for the reference
Artifacts	ASM_5018_TestCase.java Test_ASM_5018.composite TestInvocation.wsdl TestClient_0002.composite TestComposite1.composite TestComposite10.composite Service1.wsdl
Expected output	Positive test: "ASM_5018 request service1 operation1 invoked service3 operation1 invoked"

234

235 **ASM\_5019\_TestCase**

236

Testcase ID	ASM_0019_TestCase
Test Assertion	ASM-TA-5021
Description	Tests that where a <reference/> of a <component/> has @autowire="true" and also has @target identifying a single target service that the reference is wired only to the single service identified by the @target attribute
Artifacts	ASM_5019_TestCase.java Test_ASM_5019.composite TestInvocation.wsdl TestClient_0002.composite TestComposite1.composite TestComposite7.composite Service1.wsdl
Expected output	Positive test: "ASM_5019 request service1 operation1 invoked service3 operation1 invoked"

237

238 **ASM\_5020\_TestCase**

239

Testcase ID	ASM_5020_TestCase
Test Assertion	ASM-TA-5022
Description	Tests that where a <reference/> of a <component/> has @autowire=true and where there is also a single <wire/> element which as that <reference/> as its source that the reference is wired only to the single service identified by the <wire/> element
Artifacts	ASM_5020_TestCase.java Test_ASM_5020.composite TestInvocation.wsdl TestClient_0002.composite TestComposite1.composite TestComposite7.composite Service1.wsdl
Expected output	Positive test: "ASM_5020 request service1 operation1 invoked service3 operation1 invoked"

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241

242

243 **ASM\_5021\_TestCase**

244

Testcase ID	ASM_5021_TestCase
Test Assertion	ASM-TA-5023
Description	Tests that where a <reference/> of a <component/> has @autowire=true and where the <reference/> has a <binding/> child element which declares a single target service, the reference is wired only to the single service identified by the <wire/> element
Artifacts	ASM_5021_TestCase.java Test_ASM_5021.composite TestInvocation.wsdl TestClient_0002.composite TestComposite1.composite TestComposite7.composite Service1.wsdl
Expected output	Positive test: "ASM_5021 request service1 operation1 invoked service3 operation1 invoked"

245

246

247 **ASM\_5022\_TestCase**

248

Testcase ID	ASM_5022_TestCase
Test Assertion	ASM-TA-5028
Description	Tests that where a <component/> <reference/> with multiplicity=0..1 is unwired (by any means) that the component executes correctly
Artifacts	ASM_5022_TestCase.java Test_ASM_5022.composite TestInvocation.wsdl TestClient_0002.composite TestComposite8.composite Service1.wsdl
Expected output	Positive test:

	"ASM_5022 request service1 operation1 invoked"
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## 251 **ASM\_5023\_TestCase**

252

Testcase ID	ASM_5023_TestCase
Test Assertion	ASM-TA-5029
Description	Tests that where a <component/> <reference/> with multiplicity=1..1 is wired to a component service in the same composite and is also promoted by a <composite/> <reference/> which is wired to a target service by a component using the <composite/> as its implementation, that this is an error
Artifacts	ASM_5023_TestCase.java Test_ASM_5023.composite TestInvocation.wsdl TestClient_0002.composite TestComposite1.composite TestComposite11.composite Service1.wsdl
Expected output	Negative test: "exception"

253

254

## 255 **ASM\_5024\_TestCase**

256

Testcase ID	ASM_0024_TestCase
Test Assertion	ASM-TA-5030
Description	Tests that where a <component/> <reference/> has @target set to some service, that the reference can have no child <binding/> elements
Artifacts	ASM_5024_TestCase.java Test_ASM_5024.composite TestInvocation.wsdl TestClient_0002.composite TestComposite1.composite TestComposite4.composite



	Service1.wsdl
Expected output	Negative test: "exception"

257

258

## 259 **ASM\_5025\_TestCase**

260

Testcase ID	ASM_0025_TestCase
Test Assertion	ASM-TA-5032
Description	Tests that where a <component/> <property/> has its value set by means of a child <value/> element, that the type of the <value/> element matches the type declared for the <property/> element
Artifacts	ASM_5025_TestCase.java Test_ASM_5025.composite TestInvocation.wsdl TestClient_0002.composite TestComposite12.composite ASM_0002_Client.java Service1.wsdl
Expected output	Positive test: "ASM_5025 request service1 operation1 invokedcomplex1complex2"

261

262

## 263 **ASM\_5026\_TestCase**

264

Testcase ID	ASM_5026_TestCase
Test Assertion	ASM-TA-5033
Description	Tests that where a <component/> <property/> has its value set by means of a child element that is NOT a <value/> element, that a) the type of the <property/> element is declared as an XML Schema global element by its @element attribute and that the child element is an instance of that global element
Artifacts	ASM_5026_TestCase.java Test_ASM_5026.composite TestInvocation.wsdl TestClient_0002.composite

	TestComposite13.composite Service1.wsdl
Expected output	Positive test: "ASM_5026 request service1 operation1 invokedcomplex1complex2"

265

## 266 **ASM\_5027\_TestCase**

267

Testcase ID	ASM_5027_TestCase
Test Assertion	ASM-TA-5034
Description	Tests that where a <component/> has 2 or more <property/> child elements that each <property/> element has a unique @name attribute value
Artifacts	ASM_5027_TestCase.java Test_ASM_5027.composite TestInvocation.wsdl TestClient_0002.composite TestComposite1.composite Service1.wsdl
Expected output	Negative test: "exception"

268

## 269 **ASM\_5028\_TestCase**

270

Testcase ID	ASM_5028_TestCase
Test Assertion	ASM-TA-5035
Description	Tests that a <component/> <property/> @name attribute matches the @name attribute of one of the <property/> elements of the <componentType/> of the <implementation/> of the <component/>
Artifacts	ASM_5028_TestCase.java Test_ASM_5028.composite TestInvocation.wsdl TestClient_0002.composite TestComposite1.composite Service1.wsdl
Expected	Negative test:

output	"exception"
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272

273 **ASM\_5029\_TestCase**

274

Testcase ID	ASM_5029_TestCase
Test Assertion	ASM-TA-5036
Description	Tests that where a <component/> <property/> has @many=false that there is only one <value/> child element of the <property/>
Artifacts	ASM_5029_TestCase.java Test_ASM_5029.composite TestInvocation.wsdl TestClient_0002.composite TestComposite12.composite Service1.wsdl Test_Types.xsd
Expected output	Negative test: "exception"

275

276

277 **ASM\_5030\_TestCase**

278

Testcase ID	ASM_5030_TestCase
Test Assertion	ASM-TA-5037
Description	Tests that a <component/> <property/> with a @value attribute set does not have any <value/> child elements
Artifacts	ASM_5030_TestCase.java Test_ASM_5030.composite TestInvocation.wsdl TestClient_0002.composite TestComposite14.composite Service1.wsdl
Expected output	Negative test: "exception"

279

280 **ASM\_5031\_TestCase**

281

Testcase ID	ASM_5031_TestCase
Test Assertion	ASM-TA-5038
Description	Tests that where a <component/> <reference/> has its @target attribute set to a valid service and the <composite/> also contains a <wire/> element with @source set to the <component/> <reference/> and @target set to a second valid service and has @replace=true, the <reference/> is wired to the second service only
Artifacts	ASM_5031_TestCase.java Test_ASM_5031.composite TestInvocation.wsdl TestClient_0002.composite TestComposite1.composite TestComposite4.composite Service1.wsdl
Expected output	Positive test: "ASM_0031 request service1 operation1 invoked service3 operation1 invoked"

282

283 **ASM\_5032\_TestCase**

284

Testcase ID	ASM_5032_TestCase
Test Assertion	ASM-TA-5007
Description	Tests that where a <component/> <service/> has no <binding/> subelements and the corresponding <service/> element of the <componentType/> of the <component/> <implementation/> has one or more <binding/> subelements, the <component/> <service/> is made available with all the bindings declared on the <service/> element of the <componentType/>
Artifacts	ASM_5032_TestCase.java Test_ASM_5032.composite TestInvocation.wsdl TestClient_0002.composite TestComposite6.composite TestComposite15.composite

	Service1.wsdl
Expected output	Positive test: "ASM_5032 request service1 operation1 invokedservice2 operation1 invokedservice2 operation1 invoked"

285

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287

## 288 **ASM\_5033\_TestCase**

289

Testcase ID	ASM_5033_TestCase
Test Assertion	ASM-TA-5008
Description	Tests that where a <component/> <service/> has no <binding/> subelements and the corresponding <service/> element of the <componentType/> of the <component/> <implementation/> has no <binding/> subelements, the <component/> <service/> is made available with binding.sca
Artifacts	ASM_5033_TestCase.java Test_ASM_5033.composite TestInvocation.wsdl TestClient_0002.composite TestComposite6.composite TestComposite1.composite Service1.wsdl
Expected output	Positive test: "ASM_5033 request service1 operation1 invokedservice2 operation1 invokedservice2 operation1 invoked"

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292

## 293 **ASM\_5034\_TestCase**

294

Testcase ID	ASM_5034_TestCase
Test Assertion	ASM-TA-5009
Description	Tests that where a <component/> <service/> has 1 or more <binding/> subelements the <component/> <service/> is made available with all the bindings declared on the <service/> element

Artifacts	ASM_5034_TestCase.java Test_ASM_5034.composite TestInvocation.wsdl TestClient_0002.composite TestComposite6.composite TestComposite1.composite Service1.wsdl
Expected output	Positive test: "ASM_5034 request service1 operation1 invokedservice2 operation1 invokedservice2 operation1 invoked"

295

## 296 **ASM\_5035\_TestCase**

297

Testcase ID	ASM_5035_TestCase
Test Assertion	ASM-TA-5039 ASM-TA-5040
Description	Tests that where a <component/> <property/> element has a @type attribute declared it does not also have a @element attribute declared
Artifacts	ASM_5035_TestCase.java Test_ASM_5035.composite TestInvocation.wsdl TestClient_0002.composite TestComposite12.composite Service1.wsdl
Expected output	Negative test: "exception"

298

## 299 **ASM\_5036\_TestCase**

300

Testcase ID	ASM_5036_TestCase
Test Assertion	ASM-TA-5041
Description	Tests that where a <component/> <property/> has a type declared, the declared type is the same type as the declared type for the corresponding <property/> element in the componentType of the <implementation/> subelement of the <component/>

Artifacts	ASM_5036_TestCase.java Test_ASM_5036.composite TestInvocation.wsdl TestClient_0002.composite TestComposite12.composite Service1.wsdl
Expected output	Negative test: "exception"

301

### 302 **ASM\_5037\_TestCase**

303

Testcase ID	ASM_5037_TestCase
Test Assertion	ASM-TA-5042
Description	Tests that where <component/> <property/> has an @name attribute value that matches the @name attribute value of one of the <property/> elements in the componentType of the <implementation/> subelement of the <component/>
Artifacts	ASM_5037_TestCase.java Test_ASM_5037.composite TestInvocation.wsdl TestClient_0002.composite TestComposite12.composite Service1.wsdl
Expected output	Negative test: "exception"

304

305

## 306 **2.3 Section 6**

### 307 **ASM\_6001\_TestCase**

308

Testcase ID	ASM_6001_TestCase
Test Assertion	ASM-TA-6004
Description	Tests that where an SCA contribution contains two <composite/> elements with the same name and same targetNamespace that an SCA application

	using that composite does not run and that the SCA runtime reports an error
Artifacts	ASM_6001_TestCase.java Test_ASM_6001.composite TestInvocation.wsdl TestClient_0002.composite TestDuplicate1.composite TestDuplicate2.composite ASM_0002_Client.java Service1.wsdl
Expected output	Negative test: "exception"

309

310

### 311 **ASM\_6002\_TestCase**

312

Testcase ID	ASM_6002_TestCase
Test Assertion	ASM-TA-6006
Description	Tests that where a <composite/> has multiple <service/> subelements that the @name attributes are unique across those subelements
Artifacts	ASM_6002_TestCase.java Test_ASM_6002.composite TestInvocation.wsdl TestClient_0002.composite TestComposite16.composite
Expected output	Negative test: "exception"

313

314

### 315 **ASM\_6003\_TestCase**

316

Testcase ID	ASM_6003_TestCase
Test Assertion	ASM-TA-6007
Description	Tests that where a <composite/> has a <service/> subelement that the



	@promote attribute identifies a <service/> of a <component/> in the <composite/>
Artifacts	ASM_6003_TestCase.java Test_ASM_6003.composite TestInvocation.wsdl TestClient_0002.composite TestComposite17.composite Service1.wsdl
Expected output	Negative test: "exception"

317

### 318 **ASM\_6004\_TestCase**

319

Testcase ID	ASM_6004_TestCase
Test Assertion	ASM-TA-6008
Description	Tests that the <interface/> declared on a <service/> subelement of a <composite/> is a compatible subset of the <interface/> declared on the <component/> <service/> reference by the @promote attribute
Artifacts	ASM_6004_TestCase.java Test_ASM_6004.composite TestInvocation.wsdl TestClient_0002.composite TestComposite18.composite
Expected output	Positive test: "ASM_6004 request service1 operation1 invoked"

320

### 321 **ASM\_6005\_TestCase**

322

Testcase ID	ASM_6005_TestCase
Test Assertion	ASM-TA-6009
Description	Tests that the @name attribute of a <composite/> <reference/> element is unique amongst the @name attributes of all the <reference/> elements of that <composite/>
Artifacts	ASM_6005_TestCase.java Test_ASM_6005.composite

	TestInvocation.wsdl TestClient_0002.composite TestComposite19.composite
Expected output	Negative test: "exception"

323

## 324 **ASM\_6006\_TestCase**

325

Testcase ID	ASM_6006_TestCase
Test Assertion	ASM-TA-6010
Description	Tests that the @promote attribute of a <composite/> <reference/> contains one or more URIs that each point to a <reference/> of a <component/> in the <composite/>
Artifacts	ASM_6006_TestCase.java Test_ASM_6006.composite TestInvocation.wsdl TestClient_0002.composite TestComposite20.composite TestComposite1.composite
Expected output	Negative test: "exception"

326

327

## 328 **ASM\_6007\_TestCase**

329

Testcase ID	ASM_6007_TestCase
Test Assertion	ASM-TA-6011
Description	Tests that a <composite/> <reference/> can declare an <interface/> that is a compatible superset of the <interface/> declared by each <component/> <reference/> promoted by the composite reference
Artifacts	ASM_6007_TestCase.java Test_ASM_6007.composite TestInvocation.wsdl TestClient_0002.composite TestComposite21.composite

	TestComposite9.composite
Expected output	Positive test: "ASM_6007 request service1 operation1 invoked service2 operation1 invoked"

330

331 **ASM\_6008\_TestCase**

332

Testcase ID	ASM_6008_TestCase
Test Assertion	ASM-TA-6012
Description	Tests that where a <composite/> <reference/> has no <interface/> subelement, and that <reference/> promotes 2 or more <component/> <reference/>s, that the <interface/> declared on each of the <component/> <reference/>s are the same
Artifacts	ASM_6008_TestCase.java Test_ASM_6008.composite TestInvocation.wsdl TestClient_0002.composite TestComposite22.composite TestComposite1.composite
Expected output	Negative test: "exception"

333

334 **ASM\_6009\_TestCase**

335

Testcase ID	ASM_6009_TestCase
Test Assertion	ASM-TA-6015
Description	Tests that a <component/> <reference/> with @multiplicity=0..1 can be promoted by a <composite/> <reference/> with @multiplicity=1..1
Artifacts	ASM_6009_TestCase.java Test_ASM_6009.composite TestInvocation.wsdl TestClient_0002.composite TestComposite23.composite TestComposite1.composite
Expected	Positive test:

output	"ASM_6009 request service1 operation1 invokedservice2 operation1 invoked"
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### 337 **ASM\_6010\_TestCase**

338

Testcase ID	ASM_6010_TestCase
Test Assertion	ASM-TA-6017
Description	Tests that a <component/> <reference/> with @multiplicity=0..n can be promoted by a <composite/> <reference/> with @multiplicity=0..1
Artifacts	ASM_6010_TestCase.java Test_ASM_6010.composite TestInvocation.wsdl TestClient_0002.composite TestComposite24.composite TestComposite1.composite
Expected output	Positive test: "ASM_6010 request service1 operation1 invoked service2 operation1 invoked"

339

340

### 341 **ASM\_6011\_TestCase**

342

Testcase ID	ASM_6011_TestCase
Test Assertion	ASM-TA-6018
Description	Tests that a <component/> <reference/> with @multiplicity=1..n can be promoted by a <composite/> <reference/> with @multiplicity=1..1
Artifacts	ASM_6011_TestCase.java Test_ASM_6011.composite TestInvocation.wsdl TestClient_0002.composite TestComposite25.composite TestComposite1.composite
Expected output	Positive test: "ASM_6011 request service1 operation1 invoked service2 operation1 invoked"

343

344

345 **ASM\_6012\_TestCase**

346

Testcase ID	ASM_6012_TestCase
Test Assertion	ASM-TA-6019
Description	Tests that the @name attribute of a <property/> element of a <composite/> is unique amongst the @name attribute values of all the <property/> elements of that <composite/>
Artifacts	ASM_6012_TestCase.java Test_ASM_6012.composite TestInvocation.wsdl TestClient_0002.composite TestComposite26.composite TestComposite1.composite
Expected output	Negative test: "exception"

347

348

349 **ASM\_6013\_TestCase**

350

Testcase ID	ASM_6013_TestCase
Test Assertion	ASM-TA-6020
Description	Tests that a <component/> <reference/> with @autowire=true is wired to a compatible <component/> <service/> in the same <composite/>
Artifacts	ASM_6013_TestCase.java Test_ASM_6013.composite TestInvocation.wsdl TestClient_0002.composite TestComposite27.composite
Expected output	Positive test: "ASM_6013 request service1 operation1 invoked third operation1 invoked"

351

352

353 **ASM\_6014\_TestCase**

354

Testcase ID	ASM_6014_TestCase
Test Assertion	ASM-TA-6021
Description	Tests that a <component/> <reference/> with @autowire=true is wired to a <component/> <service/> with an interface which is a compatible superset of the interface on the <reference/> in the same <composite/>
Artifacts	ASM_6014_TestCase.java Test_ASM_6014.composite TestInvocation.wsdl TestClient_0002.composite TestComposite28.composite
Expected output	Positive test: "ASM_6014 request service1 operation1 invoked third operation1 invoked"

355

356

357 **ASM\_6015\_TestCase**

358

Testcase ID	ASM_6015_TestCase
Test Assertion	ASM-TA-6022
Description	Tests that a <component/> <reference/> with @autowire=true and with some intents attached using its @requires attribute is wired to a compatible <component/> <service/> in the same <composite/>, where that <service/> has the same intents attached using its @requires attribute
Artifacts	ASM_6015_TestCase.java Test_ASM_6015.composite TestInvocation.wsdl TestClient_0002.composite TestComposite29.composite Service1.wsdl
Expected output	Positive test: "ASM_6015 request service1 operation1 invoked third operation1 invoked"

359

360

361 **ASM\_6016\_TestCase**

362

Testcase ID	ASM_6016_TestCase
Test Assertion	ASM-TA-6023
Description	Tests that a <component/> <reference/> with @autowire=true and with some intents attached using its @requires attribute is not wired to a compatible <component/> <service/> in the same <composite/>, where that <service/> has different intents attached using its @requires attribute
Artifacts	ASM_6016_TestCase.java Test_ASM_6016.composite TestInvocation.wsdl TestClient_0002.composite TestComposite30.composite
Expected output	Negative test: "exception"

363

364

365 **ASM\_6017\_TestCase**

366

Testcase ID	ASM_6017_TestCase
Test Assertion	ASM-TA-6024
Description	Tests that a <component/> <reference/> with @autowire=true and @multiplicity="0..1" is wired to one compatible <component/> <service/> in the same <composite/>
Artifacts	ASM_6017_TestCase.java Test_ASM_6017.composite TestInvocation.wsdl TestClient_0002.composite TestComposite8.composite TestComposite1.composite Service1.wsdl
Expected output	Positive test with 2 alternative outputs: "ASM_6017 request service1 operation1 invoked second operation1 invoked" "ASM_6017 request service1 operation1 invoked third operation1 invoked"

367

368

369 **ASM\_6018\_TestCase**

370

Testcase ID	ASM_6018_TestCase
Test Assertion	ASM-TA-6025
Description	Tests that a <component/> <reference/> with @autowire=true and @multiplicity="0..n" is wired to all compatible <component/> <service/>s in the same <composite/>
Artifacts	ASM_6018_TestCase.java Test_ASM_6018.composite TestInvocation.wsdl TestClient_0002.composite TestComposite7.composite TestComposite1.composite Service1.wsdl
Expected output	Positive test: "ASM_6018 request service1 operation1 invoked second operation1 invoked third operation1 invoked fourth operation1 invoked"

371

372 **ASM\_6019\_TestCase**

373

Testcase ID	ASM_6019_TestCase
Test Assertion	ASM-TA-6026
Description	Tests that a <component/> <reference/> with @autowire=true and @multiplicity="0..n" runs successfully when there are no compatible <component/> <service/>s in the same <composite/>
Artifacts	ASM_6019_TestCase.java Test_ASM_6019.composite TestInvocation.wsdl TestClient_0002.composite TestComposite7.composite Service1.wsdl
Expected output	Positive test: "ASM_6019 request service1 operation1 invoked"

374



375 **ASM\_6020\_TestCase**

376

Testcase ID	ASM_6020_TestCase
Test Assertion	ASM-TA-6027
Description	Tests that a <component/> <reference/> with @autowire=true and @multiplicity="1..n" fails and causes an error to be raised when there are no compatible <component/> <service/>s in the same <composite/>
Artifacts	ASM_6020_TestCase.java Test_ASM_6020.composite TestInvocation.wsdl TestClient_0002.composite TestComposite6.composite Service1.wsdl
Expected output	Negative test: "exception"

377

378 **ASM\_6021\_TestCase**

379

Testcase ID	ASM_6021_TestCase
Test Assertion	ASM-TA-6028
Description	Tests that a <composite/> <service/> @promote attribute contains the URI of a <component/> <service/> in the <composite/>
Artifacts	ASM_6021_TestCase.java Test_ASM_6021.composite TestInvocation.wsdl TestClient_0002.composite TestComposite31.composite
Expected output	Negative test: "exception"

380

381

382 **ASM\_6022\_TestCase**

383

Testcase ID	ASM_6022_TestCase
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Test Assertion	ASM-TA-6029
Description	Tests that a <component/> <reference/> with multiplicity ="1..n" is wired to a <service/> in the same <composite/> or is promoted by a <composite> <reference/>, when the containing <composite/> is used as an <implementation/>
Artifacts	ASM_6022_TestCase.java Test_ASM_6022.composite TestInvocation.wsdl TestClient_0002.composite TestComposite32.composite
Expected output	Negative test: "exception"

384

### 385 **ASM\_6023\_TestCase**

386

Testcase ID	ASM_6023_TestCase
Test Assertion	ASM-TA-6030
Description	Tests that a <component/> <property/> which is marked with @mustSupply="true" in the componentType of the <component/> <implementation/> is given a value
Artifacts	ASM_6023_TestCase.java Test_ASM_6023.composite TestInvocation.wsdl TestClient_0002.composite TestComposite33.composite
Expected output	Negative test: "exception"

387

### 388 **ASM\_6024\_TestCase**

389

Testcase ID	ASM_6024_TestCase
Test Assertion	ASM-TA-6031
Description	Tests that the @name attribute of an <implementation.composite/> element is the QName of a <composite/> in the SCA Domain
Artifacts	ASM_6024_TestCase.java Test_ASM_6024.composite

	TestInvocation.wsdl TestClient_0002.composite
Expected output	Negative test: "exception"

390

### 391 **ASM\_6025\_TestCase**

392

Testcase ID	ASM_6025_TestCase
Test Assertion	ASM-TA-6032
Description	Tests that when an <include/> element is processed and results in an invalid <composite/> configuration, then the SCA runtime raises an error and does not run the resulting composite
Artifacts	ASM_6025_TestCase.java Test_ASM_6025.composite TestInvocation.wsdl TestClient_0002.composite TestComposite1.composite TestComposite34.composite
Expected output	Negative test: "exception"

393

### 394 **ASM\_6026\_TestCase**

395

Testcase ID	ASM_6026_TestCase
Test Assertion	ASM-TA-6035 ASM-TA-6036
Description	Tests that when a @promote attribute of a <composite/> <reference/> has a URI for a <component/> <reference/> that is present in a <composite> which is referenced through an <include/> element in the first <composite/> and also when a @promote attribute of a <composite/> <service/> has a URI for a <component/> <service/> present in the same included <composite/> then the promotions succeed and the <component/> <service/> can be invoked and the <component/> is able to invoke the reference
Artifacts	ASM_6026_TestCase.java Test_ASM_6026.composite TestInvocation.wsdl

	TestClient_0002.composite TestComposite1.composite TestComposite4.composite TestComposite35.composite TestComposite36.composite Service1.wsdl
Expected output	Positive test: "ASM_6026 request service1 operation1 invoked service2 operation1 invoked"

396

397 **ASM\_6027\_TestCase**

398

Testcase ID	ASM_6027_TestCase
Test Assertion	ASM-TA-6037
Description	Tests that when a first <composite/> contains a <wire/> element which has a @source attribute referencing a <component/> <reference/> in a second <composite/> and a @target attribute referencing a <component/> <service/> element also in that second <composite/>, where the second composite is referenced by an <include/> element in the first <composite/>, then the wire successfully connects the <reference/> to the <service/> and the client component can invoke operations on the service.
Artifacts	ASM_6027_TestCase.java Test_ASM_6027.composite TestInvocation.wsdl TestClient_0002.composite TestComposite1.composite TestComposite4.composite TestComposite37.composite
Expected output	Positive test: "ASM_6027 request service1 operation1 invoked service2 operation1 invoked"

399

400 **ASM\_6028\_TestCase**

401

Testcase ID	ASM_6028_TestCase
Test Assertion	ASM-TA-6038

	ASM-TA-6039
Description	Tests that when a <composite/> <property/> element has a @type attribute declared it does not also have a @element attribute declared
Artifacts	ASM_6028_TestCase.java Test_ASM_6028.composite TestInvocation.wsdl TestClient_0002.composite TestComposite1.composite
Expected output	Negative test: "exception"

402

### 403 **ASM\_6029\_TestCase**

404

Testcase ID	ASM_6029_TestCase
Test Assertion	ASM-TA-6040
Description	Tests that when a <composite/> has an <include/> which references a second <composite/> which has @local="true", then the first composite also has @local="true"
Artifacts	ASM_6029_TestCase.java Test_ASM_6029.composite TestInvocation.wsdl TestClient_0002.composite TestComposite1.composite TestComposite4.composite TestComposite38.composite
Expected output	Negative test: "exception"

405

### 406 **ASM\_6030\_TestCase**

407

Testcase ID	ASM_6030_TestCase
Test Assertion	ASM-TA-6041
Description	Tests that when a <composite/> has an <include/> element, the @name of the <include/> references the QName of a composite in the Domain
Artifacts	ASM_6030_TestCase.java

	Test_ASM_6030.composite TestInvocation.wsdl TestClient_0002.composite TestComposite1.composite
Expected output	Negative test: "exception"

408

409 **ASM\_6031\_TestCase**

410

Testcase ID	ASM_6031_TestCase
Test Assertion	ASM-TA-6013
Description	Tests that when a <composite/> <reference/> has @requires with intents declared and the <component/> <reference/> promoted by the composite reference has @requires with intents declared, the two sets of intents do not contain a mutually exclusive pair of intents
Artifacts	ASM_6031_TestCase.java Test_ASM_6031.composite TestInvocation.wsdl TestClient_0002.composite TestComposite1.composite TestComposite39.composite
Expected output	Negative test: "exception"

411

412 **ASM\_6032\_TestCase**

413

Testcase ID	ASM_6032_TestCase
Test Assertion	ASM-TA-6014
Description	Tests that when a <composite/> <reference/> has @requires with 2 or more intents in the declared set, that the set does not contain 2 mutually exclusive intents
Artifacts	ASM_6032_TestCase.java Test_ASM_6032.composite TestInvocation.wsdl TestClient_0002.composite

	TestComposite1.composite TestComposite40.composite
Expected output	Negative test: "exception"

414 **ASM\_6033\_TestCase**

415

Testcase ID	ASM_6033_TestCase
Test Assertion	ASM-TA-6016
Description	Tests that when a <composite/> <reference/> element promotes a <component/> <reference/> element with @multiplicity="1..1", the @multiplicity of the <composite/> <reference/> is also "1..1"
Artifacts	ASM_6033_TestCase.java Test_ASM_6033.composite TestInvocation.wsdl TestClient_0002.composite TestComposite1.composite TestComposite41.composite
Expected output	Negative test: "exception"

416

417

418

419 **2.4 Section 7**

420 **ASM\_7001\_TestCase**

421

Testcase ID	ASM_7001_TestCase
Test Assertion	ASM-TA-7001 ASM-TA-7006
Description	Tests that when a <component/> has a @constrainingType attribute set, that the <component/> implements every <service/> element defined in the <constrainingType/>
Artifacts	ASM_7001_TestCase.java Test_ASM_7001.composite TestInvocation.wsdl

	TestClient_0002.composite Test_ASM_7001.constraint TestComposite1.composite Service1.wsdl
Expected output	Negative test: "exception"

422

423 **ASM\_7002\_TestCase**

424

Testcase ID	ASM_7002_TestCase
Test Assertion	ASM-TA-7002 ASM-TA-7007
Description	Tests that when a <component/> has a @constrainingType attribute set, that the <component/> implements every <reference/> element defined in the <constrainingType/>
Artifacts	ASM_7002_TestCase.java Test_ASM_7002.composite TestInvocation.wsdl TestClient_0002.composite Test_ASM_7002.constraint TestComposite1.composite TestComposite4.composite
Expected output	Negative test: "exception"

425

426 **ASM\_7003\_TestCase**

427

Testcase ID	ASM_7003_TestCase
Test Assertion	ASM-TA-7003 ASM-TA-7008
Description	Tests that when a <component/> has a @constrainingType attribute set, that the <component/> implements every <property/> element defined in the <constrainingType/>
Artifacts	ASM_7003_TestCase.java Test_ASM_7003.composite



	TestInvocation.wsdl TestClient_0002.composite Test_ASM_7003.constraint TestComposite1.composite
Expected output	Negative test: "exception"

428

## 429 **ASM\_7004\_TestCase**

430

Testcase ID	ASM_7004_TestCase
Test Assertion	ASM-TA-7009
Description	Tests that when a <component/> has a @constrainingType attribute set, and the <component/> has an <implementation/> with a <componentType/> with one or more <service/> elements that are not in the <constrainingType/> that the <component/> runs successfully
Artifacts	ASM_7004_TestCase.java Test_ASM_7004.composite TestInvocation.wsdl TestClient_0002.composite Test_ASM_7004.constraint TestComposite48.composite
Expected output	Positive test: "ASM_7004 request service1 operation1 invoked"

431

## 432 **ASM\_7005\_TestCase**

433

Testcase ID	ASM_7005_TestCase
Test Assertion	ASM-TA-7010
Description	Tests that when a <component/> has a @constrainingType attribute set, and the <component/> has an <implementation/> with a <componentType/> with one or more <reference/> elements that are not in the <constrainingType/> that those <reference/> elements have multiplicity of 0..1 or 0..n
Artifacts	ASM_7005_TestCase.java Test_ASM_7005.composite TestInvocation.wsdl

	TestClient_0002.composite Test_ASM_7004.constraint TestComposite49.composite
Expected output	Positive test: "ASM_7005 request service1 operation1 invoked"

434

### 435 **ASM\_7006\_TestCase**

436

Testcase ID	ASM_7006_TestCase
Test Assertion	ASM-TA-7011
Description	Tests that when a <component/> has a @constrainingType attribute set, and the <component/> has an <implementation/> with a <componentType/> with one or more <property/> elements that are not in the <constrainingType/> that those <property/> elements have @mustSupply="false"
Artifacts	ASM_7006_TestCase.java Test_ASM_7006.composite TestInvocation.wsdl TestClient_0002.composite Test_ASM_7004.constraint TestComposite50.composite
Expected output	Positive test: "ASM_7006 request service1 operation1 invokedData1Data2"

### 437 **ASM\_7007\_TestCase**

438

Testcase ID	ASM_7007_TestCase
Test Assertion	ASM-TA-7012
Description	Tests that when a <component/> has a @constrainingType attribute set, and the <component/> has an <implementation/> with a <componentType/> with one or more <reference/> elements that are not in the <constrainingType/> that those <reference/> elements are not wired by the component
Artifacts	ASM_7007_TestCase.java Test_ASM_7007.composite TestInvocation.wsdl TestClient_0002.composite

	Test_ASM_7004.constraint TestComposite1.composite TestComposite49.composite
Expected output	Negative test: "exception"

439

## 440 **ASM\_7008\_TestCase**

441

Testcase ID	ASM_7008_TestCase
Test Assertion	ASM-TA-7013
Description	Tests that when a <component/> has a @constrainingType attribute set, and the <component/> has an <implementation/> with a <componentType/> with one or more <service/> elements that are not in the <constrainingType/> that those <service/> elements are not promoted by the composite containing the component
Artifacts	ASM_7008_TestCase.java Test_ASM_7008.composite TestInvocation.wsdl TestClient_0002.composite Test_ASM_7004.constraint TestComposite48.composite
Expected output	Negative test: "exception"

## 442 **ASM\_7009\_TestCase**

443

Testcase ID	ASM_7009_TestCase
Test Assertion	ASM-TA-7014
Description	Tests that when a <component/> has a @constrainingType attribute set, and the <component/> has an <implementation/> with a <componentType/> with one or more <service/> elements that are not in the <constrainingType/> that those <reference/> elements are not promoted by the composite containing the component
Artifacts	ASM_7009_TestCase.java Test_ASM_7009.composite TestInvocation.wsdl TestClient_0002.composite

	Test_ASM_7004.constraint TestComposite49.composite
Expected output	Negative test: "exception"

444

## 445 **ASM\_7010\_TestCase**

446

Testcase ID	ASM_7010_TestCase
Test Assertion	ASM-TA-7005
Description	Tests that where the SCA Domain contains 2 or more <constrainingType/> documents, that the @name attribute value of any <constrainingType/> element is not the same as the @name attribute value of any other <constrainingType/> element
Artifacts	ASM_7010_TestCase.java Test_ASM_7010.composite TestInvocation.wsdl TestClient_0002.composite Test_ASM_7010_A.constraint Test_ASM_7010_B.constraint TestComposite49.composite
Expected output	Negative test: "exception"

447

448

## 449 **2.5 Section 8**

## 450 **ASM\_8001\_TestCase**

451

Testcase ID	ASM_8001_TestCase
Test Assertion	ASM-TA-8001
Description	Tests that when an <interface/> element references an interface document which is marked remotable, that the interface document does not contain the declaration of 2 operations with the same name
Artifacts	ASM_8001_TestCase.java Test_ASM_8001.composite

	TestInvocation.wsdl TestClient_0002.composite TestComposite51.composite Service3.wsdl
Expected output	Negative test: "exception"

452

453 **ASM\_8002\_TestCase**

454

Testcase ID	ASM_8002_TestCase
Test Assertion	ASM-TA-8002
Description	Tests that when an <interface/> element references an interface document which is marked remotable, that the value of an input parameter of an operation in the interface in the client component implementation is the same after the operation completes as immediately before invoking the operation
Artifacts	ASM_8002_TestCase.java Test_ASM_8002.composite TestInvocation.wsdl TestClient_0002.composite TestComposite52.composite TestComposite53.composite Service1.wsdl Service4.wsdl
Expected output	Positive test: "ASM_8002 request service1 operation1 invoked"

455

456 **ASM\_8003\_TestCase**

457

Testcase ID	ASM_8003_TestCase
Test Assertion	ASM-TA-8004 ASM-TA-8007
Description	Tests that when an <interface/> element of a <component/> <reference/> has an interface that is marked bidirectional, that the invoked <service/> <implementation/> can invoke an operation of the callback interface on the <implementation/> which has the <reference/>

Artifacts	ASM_8003_TestCase.java Test_ASM_8003.composite TestInvocation.wsdl TestClient_0002.composite TestComposite54.composite TestComposite55.composite Service1.wsdl Service5.wsdl Service5Callback.wsdl
Expected output	Positive test: "ASM_8003 request service1 operation1 invoked service2 operation1 invoked service1 callback1 invoked"

458

459 **ASM\_8004\_TestCase**

460

Testcase ID	ASM_8004_TestCase
Test Assertion	ASM-TA-8005
Description	Tests that when an <interface/> element of a <component/> <reference/> has an interface that is marked bidirectional, where the forward interface is marked remotable, then the callback interface is also marked remotable
Artifacts	ASM_8004_TestCase.java Test_ASM_8004.composite TestInvocation.wsdl TestClient_0002.composite TestComposite56.composite TestComposite57.composite Service1.wsdl Service6Callback.java Service6.java
Expected output	Negative test: "exception"

461

462 **ASM\_8005\_TestCase**

463

Testcase ID	ASM_8005_TestCase
Test Assertion	ASM-TA-8006
Description	Tests that when an <interface/> element of a <component/> <reference/> has an interface that is marked bidirectional, where the forward interface is marked local, then the callback interface is also marked local
Artifacts	ASM_8005_TestCase.java Test_ASM_8005.composite TestInvocation.wsdl TestClient_0002.composite TestComposite58.composite TestComposite59.composite Service1.wsdl Service7Callback.java Service7.java
Expected output	Negative test: "exception"

464

## 465 **ASM\_8006\_TestCase**

466

Testcase ID	ASM_8006_TestCase
Test Assertion	ASM-TA-8008
Description	Tests that when an <interface/> element of a <component/> <reference/> explicitly declares both a forward interface and a callback interface and the forward interface document also declares a callback interface, that the two callback interfaces are compatible
Artifacts	ASM_8006_TestCase.java Test_ASM_8006.composite TestInvocation.wsdl TestClient_0002.composite TestComposite60.composite TestComposite61.composite Service1.wsdl Service9.wsdl Service8Callback.wsdl
Expected output	Negative test: "exception"

467

468 **ASM\_8007\_TestCase**

469

Testcase ID	ASM_8007_TestCase
Test Assertion	ASM-TA-8009
Description	Tests that when an <interface/> element of a <component/> <service/> explicitly declares both a forward interface and a callback interface that the callback interface is compatible with the callback interface of the <componentType/> <service/> element of the <implementation/> used by the <component/>
Artifacts	ASM_8007_TestCase.java Test_ASM_8007.composite TestInvocation.wsdl TestClient_0002.composite TestComposite54.composite TestComposite55.composite Service1.wsdl Service5.wsdl Service5Callback.wsdl Service8Callback.wsdl
Expected output	Negative test: "exception"

470

471 **ASM\_8008\_TestCase**

472

Testcase ID	ASM_8008_TestCase
Test Assertion	ASM-TA-8010
Description	Tests that when an <interface/> element of a <component/> <reference/> explicitly declares both a forward interface and a callback interface that the callback interface is compatible with the callback interface of the <componentType/> <reference/> element of the <implementation/> used by the <component/>
Artifacts	ASM_8008_TestCase.java Test_ASM_8008.composite TestInvocation.wsdl TestClient_0002.composite



	TestComposite54.composite TestComposite55.composite Service1.wsdl Service5.wsdl Service5Callback.wsdl Service8Callback.wsdl
Expected output	Negative test: "exception"

473

474 **ASM\_8009\_TestCase**

475

Testcase ID	ASM_8009_TestCase
Test Assertion	ASM-TA-8011
Description	Tests that when an <interface/> element of a <componentType/> <reference/> or <service/> does not declare a callback interface that the <component/> <reference/> or <service/> element of the <implementation/> used by the <component/> also does not declare a callback interface
Artifacts	ASM_8009_TestCase.java Test_ASM_8009.composite TestInvocation.wsdl TestClient_0002.composite TestComposite54.composite TestComposite55.composite Service1.wsdl Service5Callback.java
Expected output	Negative test: "exception"

476

477 **ASM\_8010\_TestCase**

478

Testcase ID	ASM_8010_TestCase
Test Assertion	ASM-TA-8012
Description	Tests that when an <interface/> element of a <component/> <service/> declares a callback interface that the <composite/> <service/> element which promotes the component service declares a compatible callback

	interface
Artifacts	ASM_8010_TestCase.java Test_ASM_8010.composite TestInvocation.wsdlTestClient_0002.composite TestComposite54.composite TestComposite63.composite Service1.wsd Service5.wsd Service5Callback.wsd Service8Callback.wsd
Expected output	Negative test: "exception"

479

480 **ASM\_8011\_TestCase**

481

Testcase ID	ASM_8011_TestCase
Test Assertion	ASM-TA-8013
Description	Tests that when an <interface/> element of a <component/> <reference/> declares a callback interface that the <composite/> <reference/> element which promotes the component service declares a compatible callback interface
Artifacts	ASM_8011_TestCase.java Test_ASM_8011.composite TestInvocation.wsd TestClient_0002.composite TestComposite62.composite TestComposite55.composite Service5.wsd Service5Callback.wsd
Expected output	Negative test: "exception"

482

483 **ASM\_8012\_TestCase**

484

Testcase ID	ASM_8012_TestCase
Test Assertion	ASM-TA-8014
Description	Tests that when an <interface/> element of a <component/> <reference/> does not declare a callback interface that the <composite/> <reference/> element which promotes the <component/> <reference/> also does not declare a callback interface
Artifacts	ASM_8012_TestCase.java Test_ASM_8012.composite TestInvocation.wsdl TestClient_0002.composite TestComposite64.composite Service1.wsdl
Expected output	Negative test: "exception"

485

486 **ASM\_8013\_TestCase**

487

Testcase ID	ASM_8013_TestCase
Test Assertion	ASM-TA-8015
Description	Tests that where the <implementation/> of a component with a <service/> with an <interface/> with a callback, the implementation can invoke operations of the callback interface an arbitrary number of times
Artifacts	ASM_8013_TestCase.java Test_ASM_8013.composite TestInvocation.wsdl TestClient_0002.composite TestComposite54.composite TestComposite65.composite Service1.wsdl Service5.wsdl Service5Callback.wsdl
Expected output	Positive test: "ASM_8013 request service1 operation1 invoked service2 operation1 invoked service1 callback1 invoked service1 callback1 invoked service1 callback1 invoked"

488

489 **ASM\_8014\_TestCase**

490

Testcase ID	ASM_8014_TestCase
Test Assertion	ASM-TA-8018
Description	Tests that when an <interface/> element of a <service/> or <reference/> has one or more intents attached to it, those intents apply to the <service/> or <reference/>
Artifacts	ASM_8014_TestCase.java Test_ASM_8014.composite TestInvocation.wsdl TestClient_0002.composite TestComposite4.composite TestComposite66.composite Service1.wsdl Service1_Intent.wsdl
Expected output	Positive test: "ASM_8018 request service1 operation1 invoked service2 operation1 invoked"

491

492 **ASM\_8015\_TestCase**

493

Testcase ID	ASM_8015_TestCase
Test Assertion	ASM-TA-8020
Description	Tests that when an <interface.wsdl/> element is used to declare an interface, that the @interface attribute of the element references a WSDL 1.1 portType
Artifacts	ASM_8015_TestCase.java Test_ASM_8015.composite TestInvocation.wsdl TestClient_0002.composite TestComposite1.composite TestInvocation.wsdl Service1.wsdl
Expected output	Positive test: "ASM_8015 request service1 operation1 invoked"

494

495 **ASM\_8016\_TestCase**

496

Testcase ID	ASM_8016_TestCase
Test Assertion	ASM-TA-8020
Description	Tests that when an <interface.wsdl/> element is used to declare a callback interface, that the @callbackInterface attribute of the element references a WSDL 1.1 portType
Artifacts	ASM_8016_TestCase.java Test_ASM_8016.composite TestInvocation.wsdl TestClient_0002.composite TestComposite54.composite TestComposite55.composite ASM_0002_Client.java Service1.wsdl Service5.wsdl Service5Callback.wsdl
Expected output	Positive test: "ASM_8016 request service1 operation1 invoked service2 operation1 invoked service1 callback1 invoked"

497

498 **ASM\_8017\_TestCase**

499

Testcase ID	ASM_8017_TestCase
Test Assertion	ASM-TA-8014
Description	Tests that when an <interface/> element of a <component/> <service/> does not declare a callback interface that the <composite/> <service/> element which promotes the <component/> <service/> also does not declare a callback interface
Artifacts	ASM_8017_TestCase.java Test_ASM_8017.composite TestInvocation.wsdl TestClient_0002.composite TestComposite64.composite Service1.wsdl
Expected	Negative test:

output	"exception"
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500

501 **ASM\_8018\_TestCase**

502

Testcase ID	ASM_8018_TestCase
Test Assertion	ASM-TA-8011
Description	Tests that when an <interface/> element of a <componentType/> <service/> does not declare a callback interface that the <component/> <service/> element of the <implementation/> used by the <component/> also does not declare a callback interface
Artifacts	ASM_8018_TestCase.java Test_ASM_8018.composite TestInvocation.wsdl TestClient_0002.composite TestComposite1.composite Service1.wsdl Service5Callback.wsdl
Expected output	Negative test: "exception"

503

504 **ASM\_8019\_TestCase**

505

Testcase ID	ASM_8019_TestCase
Test Assertion	ASM-TA-8022
Description	Tests that an <interface.wsdl/> element does not contain @remotable="false"
Artifacts	ASM_8019_TestCase.java Test_ASM_8019.composite TestInvocation.wsdl TestClient_0002.composite TestComposite1.composite Service1.wsdl
Expected output	Negative test: "exception"

506

507

## 508 2.6 Section 9

### 509 ASM\_9001\_TestCase

510

Testcase ID	ASM_9001_TestCase
Test Assertion	ASM-TA-9002
Description	Tests that if a <binding/> element of a <reference/> element has a @uri attribute set, that it points to a service endpoint.
Artifacts	ASM_9001_TestCase.java Test_ASM_9001.composite TestInvocation.wsdl TestClient_0002.composite TestComposite1.composite Service1.wsdl
Expected output	Positive test: "ASM_9001 request service1 operation1 invoked"

511

### 512 ASM\_9002\_TestCase

513

Testcase ID	ASM_9002_TestCase
Test Assertion	ASM-TA-9003
Description	Tests that if a <service/> element has multiple <binding/> subelements, that the @name attribute of each <binding/> element must be unique amongst the binding elements of that <service/>
Artifacts	ASM_9002_TestCase.java Test_ASM_9002.composite TestInvocation.wsdl TestClient_0002.composite TestComposite1.composite Service1.wsdl
Expected output	Negative test: "exception"

514

515 **ASM\_9003\_TestCase**

516

Testcase ID	ASM_9003_TestCase
Test Assertion	ASM-TA-9004
Description	Tests that if a <binding/> element of a <reference/> element does not identify a target service using binding specific mechanisms, that it has a @uri attribute which resolves to a valid service endpoint
Artifacts	ASM_9003_TestCase.java Test_ASM_9003.composite TestInvocation.wsdl TestClient_0002.composite TestComposite1.composite Service1.wsdl
Expected output	Positive test: "ASM_9003 request service1 operation1 invoked"

517

518 **ASM\_9004\_TestCase**

519

Testcase ID	ASM_9004_TestCase
Test Assertion	ASM-TA-9005
Description	Tests that if a <binding/> element of a <reference/> element is wired to a <service/> element which has multiple <binding/> subelements, each with a @name attribute set, that the @target attribute of the <reference/> uses the form "componentName/serviceName/bindingName" to select one specific binding for the wire
Artifacts	ASM_9004_TestCase.java Test_ASM_9004.composite TestInvocation.wsdl TestClient_0002.composite TestComposite1.composite Service1.wsdl
Expected output	Positive test: "ASM_9004 request service1 operation1 invoked"

520



521 **2.7 Section 10**

522 **ASM\_10001\_TestCase**

523

Testcase ID	ASM_10001_TestCase
Test Assertion	ASM-TA-10001
Description	Tests that the QName of an <intent/> <policySet/> <bindingType/> or <implementationType/> subelement of a <definitions/> element is unique in the Domain
Artifacts	ASM_10001_TestCase.java Test_ASM_5002.composite TestInvocation.wsdl TestClient_0002.composite TestComposite1.composite Service1.wsdl ASM_10001/definitions.xml
Expected output	Negative test: "exception"

524

525 **ASM\_10002\_TestCase**

526

Testcase ID	ASM_10002_TestCase
Test Assertion	ASM-TA-10002
Description	Tests that when a <definitions/> file contains an <intent/> subelement, that the intent is available for use by any element in the SCA Domain
Artifacts	ASM_10002_TestCase.java Test_ASM_10002.composite TestInvocation.wsdl TestClient_0002.composite TestComposite1.composite Service1.wsdl General/META-INF/definitions.xml
Expected output	Positive test: "ASM_10002 request service1 operation1 invoked"

527

528 **ASM\_10003\_TestCase**

529

Testcase ID	ASM_10003_TestCase
Test Assertion	ASM-TA-10003
Description	Tests that when a <definitions/> file has content that does not conform to the sca-definitions.xsd, it is rejected by the SCA runtime
Artifacts	ASM_10003_TestCase.java Test_ASM_10003.composite TestInvocation.wsdl TestClient_0002.composite TestComposite1.composite Service1.wsdl ASM_10003/META-INF/definitions.xml
Expected output	Negative test: "exception"

530

531 **2.8 Section 12**532 **ASM\_12001\_TestCase**

533

Testcase ID	ASM_12001_TestCase
Test Assertion	ASM-TA-12002 ASM-TA-12003
Description	Tests that a contribution with a META-INF directory at the root, containing a file called sca-contribution.xml containing a <deployable/> element referencing a composite in the contribution, has that composite run when the contribution is deployed
Artifacts	ASM_12001_TestCase.java Test_ASM_12001.composite TestInvocation.wsdl TestClient_0002.composite TestComposite1.composite Service1.wsdl ASM_12001/META-INF/sca-contribution.xml
Expected output	Positive test:

	"ASM_12001 request service1 operation1 invoked"
--	---

534

535 **ASM\_12002\_TestCase**

536

Testcase ID	ASM_12002_TestCase
Test Assertion	ASM-TA-12005 ASM-TA-12002
Description	Tests that where a WSDL document references its schema using @schemaLocation attribute (schema artifact specific artifact resolution mechanism), that this is used to resolve the schema rather than SCA mechanisms.
Artifacts	ASM_12002_TestCase.java Test_ASM_12002.composite TestInvocation.wsdl TestClient_0002.composite TestComposite1.composite Service1a.wsdl Service1a.xsd (at location <a href="http://www.oasis-open.org/committees/download.php/32378/Service1a.xsd">http://www.oasis-open.org/committees/download.php/32378/Service1a.xsd</a> )
Expected output	Positive test: "ASM_12002 request service1 operation1 invoked"

537

538 **ASM\_12003\_TestCase**

539

Testcase ID	ASM_12003_TestCase
Test Assertion	ASM-TA-12006 ASM-TA-12012
Description	Tests that where a WSDL document references its schema using @schemaLocation attribute (schema artifact specific artifact resolution mechanism), and that this mechanism fails, then the SCA runtime reports an error
Artifacts	ASM_12003_TestCase.java Test_ASM_12003.composite TestInvocation.wsdl TestClient_0002.composite TestComposite1.composite

	Service1b.wsdl
Expected output	Negative test: "exception"

540

541 **ASM\_12004\_TestCase**

542

Testcase ID	ASM_12004_TestCase
Test Assertion	ASM-TA-12007
Description	Tests that the SCA runtime accepts and runs a contribution in ZIP format
Artifacts	ASM_12004_TestCase.java Test_ASM_12004.composite TestInvocation.wsdl TestClient_0002.composite TestComposite1.composite Service1.wsdl ASM_12004.zip
Expected output	Positive test: "ASM_12004 request service1 operation1 invoked"

543

544 **ASM\_12005\_TestCase**

545

Testcase ID	ASM_12005_TestCase
Test Assertion	ASM-TA-12010
Description	Tests that where multiple indirect dependent contributions export conflicting artifacts, the conflict is resolved by explicit import statements in the root contribution  The concept of the test is that two composite files with the same name in 2 different contributions have different contents - and that only 1 of them will work with the root composite file
Artifacts	ASM_12005_TestCase.java Test_ASM_12005.composite TestInvocation.wsdl TestClient_0002.composite TestComposite5.composite (version 1 - contribution = General)

	TestComposite5.composite (version 2 - contribution = Contribution1) Service1.wsdl
Expected output	Positive test: "ASM_12005 request servicex operation1 invoked"

546

## 547 **ASM\_12006\_TestCase**

548

Testcase ID	ASM_12006_TestCase
Test Assertion	ASM-TA-12013
Description	Tests that where a <component/> <reference/> is not wired by any explicit means, where the component is at the SCA Domain level that the reference remains unwired and cannot be invoked by the <component/> <implementation/>
Artifacts	ASM_12006_TestCase.java Test_ASM_12006.composite TestClient_0004.composite TestComposite1.composite ASM_0002_Client.java Service1.wsdl
Expected output	Positive test: "ASM_12006 request no invocation"

549

## 550 **ASM\_12007\_TestCase**

551

Testcase ID	ASM_12007_TestCase
Test Assertion	ASM-TA-12027
Description	Tests that where a contribution contains multiple <import/> declarations which refer to the namespace of a referenced artifact, that the artifact is found by searching target locations in the order in which the <import/> statements occur in the <contribution/> document
Artifacts	ASM_12007_TestCase.java Test_ASM_12007.composite TestInvocation.wsdl TestClient_0002.composite TestComposite5.composite (version 1 - contribution = General) TestComposite5.composite (version 2 - contribution = Contribution1)

	Service1.wsdl ASM_12007/META-INF/sca-contribution.xml
Expected output	Negative test: "exception"

552

## 553 **ASM\_12008\_TestCase**

554

Testcase ID	ASM_12008_TestCase
Test Assertion	ASM-TA-12028
Description	Tests that where a contribution contains an <import/> declaration which refers to the namespace of a referenced artifact and where the artifact is present in a second contribution which exports the namespace, that the artifact is resolved in the second contribution even though a copy of the artifact exists in the original contribution
Artifacts	ASM_12008_TestCase.java Test_ASM_12008.composite TestInvocation.wsdl TestClient_0002.composite TestComposite5a.composite (version 1 - contribution = General) TestComposite5.composite (version 2 - contribution = ASM_12008) Service1.wsdl ASM_12008/META-IF/sca-contribution.xml
Expected output	Negative test: "exception"

555

## 556 **ASM\_12009\_TestCase**

557

Testcase ID	ASM_12008_TestCase
Test Assertion	ASM-TA-12029
Description	Tests that where a contribution contains an <import/> declaration with a specified target contribution which refers to the namespace of a referenced artifact and where the artifact is NOT present in the target contribution which exports the namespace, that the artifact is resolved in the first contribution when a copy of the artifact exists in the original contribution
Artifacts	ASM_12009_TestCase.java Test_ASM_12009.composite

	TestInvocation.wsdl TestClient_0002.composite TestComposite66.composite Service1.wsdl Contribution1 ASM_12009/META-IF/sca-contribution.xml
Expected output	Positive test: "ASM_12009 request servicex operation1 invoked"

558

559

560 **ASM\_12010\_TestCase**

561

Testcase ID	ASM_12010_TestCase
Test Assertion	ASM-TA-12030
Description	Tests that where a first contribution resolves an artifact reference to an artifact in a second contribution, where the resolved artifact has a further artifact reference, that this reference is resolved through the import statements of the second contribution even if the first contribution has import statements (to different locations) for the same namespace
Artifacts	ASM_12010_TestCase.java Test_ASM_12010.composite TestInvocation.wsdl TestClient_0002.composite TestComposite67.composite (Contribution2) TestComposite5.composite (version 1 - contribution = General) TestComposite5.composite (version 2 - contribution = Contribution1) Service1.wsdl ASM_12010/META-IF/sca-contribution.xml Contribution2/META-INF/sca-contribution.xml
Expected output	Positive test: "ASM_12010 request servicex operation1 invoked"

562

563 **ASM\_12011\_TestCase**

564

Testcase ID	ASM_12011_TestCase
Test Assertion	ASM-TA-12031
Description	Tests that where a contribution contains an <import/> declaration with a specific target contribution which refers to the namespace of a referenced artifact and the artifact is neither present in the target contribution nor the original contribution, that the resolution fails and the SCA runtime reports an error even where that artifact is available in other contributions
Artifacts	ASM_12011_TestCase.java Test_ASM_12011.composite TestInvocation.wsdl TestClient_0002.composite TestComposite68.composite Service1.wsdl ASM_12010/META-IF/sca-contribution.xml
Expected output	Negative test: "exception"

565

## 566 **ASM\_12012\_TestCase**

567

Testcase ID	ASM_12012_TestCase
Test Assertion	ASM-TA-12032
Description	Tests that where a contribution contains an sca-contribution.xml file that violates the schema sca-contribution.xsd, that the SCA runtime rejects the file and raises an error
Artifacts	ASM_12012_TestCase.java Test_ASM_12012.composite TestInvocation.wsdl TestClient_0002.composite TestComposite5.composite (version 1 - contribution = General) Service1.wsdl ASM_12012/META-IF/sca-contribution.xml
Expected output	Negative test: "exception"

568

## 569 **ASM\_12013\_TestCase**

570



Testcase ID	ASM_12013_TestCase
Test Assertion	ASM-TA-12035
Description	Tests that where a contribution has an artifact with an artifact dependency which is resolved via an <import/> declaration to an artifact in a second contribution and the resolved artifact has a further dependency on an artifact that is present in both the original contribution and in the second contribution that the dependency of the resolved artifact is resolved to the artifact in the second contribution
Artifacts	ASM_12013_TestCase.java Test_ASM_12013.composite TestInvocation.wsdl TestClient_0002.composite TestComposite69.composite TestComposite1.composite (version 1 - contribution = General) TestComposite1.composite (version 2 - contribution = ASM_12013) Service1.wsdl Service1.java service1Impl.java ASM_12013/META-IF/sca-contribution.xml
Expected output	Positive test: "ASM_12013 request service1 operation1 invoked"

571

572

## 573 2.9 Section 13

### 574 ASM\_13001\_TestCase

575

Testcase ID	ASM_13001_TestCase
Test Assertion	ASM-TA-13001
Description	Tests that the SCA runtime rejects an invalid composite file which violates one of the SCA schemas (sca-core.xsd, sca-interface-wsdl.xsd, sca-implementation-composite.xsd and sca-binding-sca.xsd).
Artifacts	ASM_13001_TestCase.java Test_ASM_13001.composite TestInvocation.wsdl TestClient_0002.composite TestComposite1.composite

	Service1.wsdl
Expected output	Negative test: "exception"

576

577 **ASM\_13002\_TestCase**

578

Testcase ID	ASM_13002_TestCase
Test Assertion	ASM-TA-13001
Description	Tests that the SCA runtime rejects an invalid composite file which violates one of the SCA schemas (sca-core.xsd, sca-interface-wsdl.xsd, sca-implementation-composite.xsd and sca-binding-sca.xsd).
Artifacts	ASM_13002_TestCase.java Test_ASM_13002.composite TestInvocation.wsdl TestClient_0002.composite TestComposite1.composite Service1.wsdl
Expected output	Negative test: "exception"

579

580 **ASM\_13003\_TestCase**

581

Testcase ID	ASM_13003_TestCase
Test Assertion	ASM-TA-13001
Description	Tests that the SCA runtime rejects an invalid composite file which violates one of the SCA schemas (sca-core.xsd, sca-interface-wsdl.xsd, sca-implementation-composite.xsd and sca-binding-sca.xsd).
Artifacts	ASM_13003_TestCase.java Test_ASM_13003.composite TestInvocation.wsdl TestClient_0002.composite TestComposite1.composite Service1.wsdl
Expected output	Negative test: "exception"

582

583 **ASM\_13004\_TestCase**

584

Testcase ID	ASM_13004_TestCase
Test Assertion	ASM-TA-13001
Description	Tests that the SCA runtime rejects an invalid composite file which violates one of the SCA schemas (sca-core.xsd, sca-interface-wsdl.xsd, sca-implementation-composite.xsd and sca-binding-sca.xsd).
Artifacts	ASM_13004_TestCase.java Test_ASM_13004.composite TestInvocation.wsdl TestClient_0002.composite TestComposite1.composite Service1.wsdl
Expected output	Negative test: "exception"

585

586 **ASM\_13005\_TestCase**

587

Testcase ID	ASM_13005_TestCase
Test Assertion	ASM-TA-13001
Description	Tests that the SCA runtime rejects an invalid composite file which violates one of the SCA schemas (sca-core.xsd, sca-interface-wsdl.xsd, sca-implementation-composite.xsd and sca-binding-sca.xsd).
Artifacts	ASM_13005_TestCase.java Test_ASM_13005.composite TestInvocation.wsdl TestComposite1.composite Service1.wsdl
Expected output	Negative test: "exception"

588

589 **ASM\_13006\_TestCase**

590

Testcase ID	ASM_13006_TestCase
Test Assertion	ASM-TA-13001
Description	Tests that the SCA runtime rejects an invalid composite file which violates one of the SCA schemas (sca-core.xsd, sca-interface-wsdl.xsd, sca-implementation-composite.xsd and sca-binding-sca.xsd).
Artifacts	ASM_13006_TestCase.java Test_ASM_13006.composite TestClient_0002.composite TestComposite1.composite Service1.wsdl ** test.TestInvocation.java **
Expected output	Negative test: "exception"

591

592

### 593 **ASM\_13007\_TestCase**

594

Testcase ID	ASM_13007_TestCase
Test Assertion	ASM-TA-13001
Description	Tests that the SCA runtime rejects an invalid composite file which violates one of the SCA schemas (sca-core.xsd, sca-interface-wsdl.xsd, sca-implementation-composite.xsd and sca-binding-sca.xsd).
Artifacts	ASM_13007_TestCase.java Test_ASM_13007.composite TestInvocation.wsdl TestClient_0002.composite Service1.wsdl
Expected output	Negative test: "exception"

595

### 596 **ASM\_13008\_TestCase**

597

Testcase ID	ASM_13008_TestCase
Test Assertion	ASM-TA-13001
Description	Tests that the SCA runtime rejects an invalid composite file which violates

	one of the SCA schemas (sca-core.xsd, sca-interface-wsdl.xsd, sca-implementation-composite.xsd and sca-binding-sca.xsd).
Artifacts	ASM_13008_TestCase.java Test_ASM_13008.composite TestInvocation.wsdl TestClient_0002.composite Service1.wsdl
Expected output	Negative test: "exception"

598

599

600 **2.10 Section 14**

601 **No testcases**

602

### 3 Cross Mapping of Test Assertions to TestCases

603

Test Assertion	Test Cases
ASM-TA-4001	ASM_4001_TestCase
ASM-TA-4002	ASM_4002_TestCase
ASM-TA-4003	ASM_4003_TestCase
ASM-TA-4004	ASM_4004_TestCase
ASM-TA-4005	Untestable - wiredByImpl
ASM-TA-4006	ASM_4005_TestCase
ASM-TA-4007	ASM_4006_TestCase
ASM-TA-4008	ASM_5002_TestCase
ASM-TA-4009	ASM_4007_TestCase
ASM-TA-4010	ASM_4007_TestCase
ASM-TA-4011	ASM_4008_TestCase

604

Test Assertion	Test Cases
ASM-TA-5001	ASM_5005_TestCase
ASM-TA-5002	ASM_5006_TestCase
ASM-TA-5003	ASM_5007_TestCase
ASM-TA-5004	ASM_5008_TestCase
ASM-TA-5005	ASM_5009_TestCase
ASM-TA-5006	ASM_5010_TestCase
ASM-TA-5007	ASM_5032_TestCase
ASM-TA-5008	ASM_5033_TestCase
ASM-TA-5009	ASM_5034_TestCase
ASM-TA-5010	ASM_5011_TestCase
ASM-TA-5011	ASM_5012_TestCase
ASM-TA-5012	ASM_5013_TestCase ASM_5014_TestCase
ASM-TA-5013	ASM_5015_TestCase
ASM-TA-5014	Untestable - wiredByImpl
ASM-TA-5015	Untestable - wiredByImpl
ASM-TA-5016	ASM_5016_TestCase
ASM-TA-5017	ASM_5017_TestCase

ASM-TA-5018	ASM_5018_TestCase
ASM-TA-5019	Untestable - wiredByImpl
ASM-TA-5020	Untestable - wiredByImpl
ASM-TA-5021	ASM_5019_TestCase
ASM-TA-5022	ASM_5020_TestCase
ASM-TA-5023	ASM_5021_TestCase
ASM-TA-5024	ASM_5018_TestCase
ASM-TA-5025	ASM_5002_TestCase
ASM-TA-5026	ASM_5003_TestCase
ASM-TA-5027	ASM_5004_TestCase
ASM-TA-5028	ASM_5022_TestCase
ASM-TA-5029	ASM_5023_TestCase
ASM-TA-5030	ASM_5024_TestCase
ASM-TA-5031	ASM_5002_TestCase
ASM-TA-5032	ASM_5025_TestCase
ASM-TA-5033	ASM_5026_TestCase
ASM-TA-5034	ASM_5027_TestCase
ASM-TA-5035	ASM_5028_TestCase
ASM-TA-5036	ASM_5029_TestCase
ASM-TA-5037	ASM_5030_TestCase
ASM-TA-5038	ASM_5031_TestCase
ASM-TA-5039	ASM_5035_TestCase
ASM-TA-5040	ASM_5035_TestCase
ASM-TA-5041	ASM_5036_TestCase
ASM-TA-5042	ASM_5037_TestCase
ASM-TA-5043	Requires multiple bindings - leave to Bindings TC to devise a test

605

Test Assertion	Test Cases
ASM-TA-6001	Untestable - interfaces compatible
ASM-TA-6002	Untestable - interfaces - compatible superset
ASM-TA-6003	Untestable - interfaces - compatible subset
ASM-TA-6004	ASM_6001_TestCase
ASM-TA-6005	Untestable - tests that components run local to each other
ASM-TA-6006	ASM_6002_TestCase

ASM-TA-6007	ASM_6003_TestCase
ASM-TA-6008	ASM_6004_TestCase
ASM-TA-6009	ASM_6005_TestCase
ASM-TA-6010	ASM_6006_TestCase
ASM-TA-6011	ASM_6007_TestCase
ASM-TA-6012	ASM_6008_TestCase
ASM-TA-6013	ASM_6031_TestCase
ASM-TA-6014	ASM_6032_TestCase
ASM-TA-6015	ASM_6009_TestCase
ASM-TA-6016	ASM_6033_TestCase
ASM-TA-6017	ASM_6010_TestCase
ASM-TA-6018	ASM_6011_TestCase
ASM-TA-6019	ASM_6012_TestCase
ASM-TA-6020	ASM_6013_TestCase
ASM-TA-6021	ASM_6014_TestCase
ASM-TA-6022	ASM_6015_TestCase
ASM-TA-6023	ASM_6016_TestCase
ASM-TA-6024	ASM_6017_TestCase
ASM-TA-6025	ASM_6018_TestCase
ASM-TA-6026	ASM_6019_TestCase
ASM-TA-6027	ASM_6020_TestCase
ASM-TA-6028	ASM_6021_TestCase
ASM-TA-6029	ASM_6022_TestCase
ASM-TA-6030	ASM_6023_TestCase
ASM-TA-6031	ASM_6024_TestCase
ASM-TA-6032	ASM_6025_TestCase
ASM-TA-6033	Untestable - no wiredByImpl implementation
ASM-TA-6034	Untestable - no wiredByImpl implementation
ASM-TA-6035	ASM_6026_TestCase
ASM-TA-6036	ASM_6026_TestCase
ASM-TA-6037	ASM_6027_TestCase
ASM-TA-6038	ASM_6028_TestCase
ASM-TA-6039	ASM_6028_TestCase
ASM-TA-6040	ASM_6029_TestCase
ASM-TA-6041	ASM_6030_TestCase



606

607

Test Assertion	Test Cases
ASM-TA-7001	ASM_7001_TestCase
ASM-TA-7002	ASM_7002_TestCase
ASM-TA-7003	ASM_7003_TestCase
ASM-TA-7004	Untestable
ASM-TA-7005	ASM_7010_TestCase
ASM-TA-7006	ASM_7001_TestCase
ASM-TA-7007	ASM_7002_TestCase
ASM-TA-7008	ASM_7003_TestCase
ASM-TA-7009	ASM_7004_TestCase
ASM-TA-7010	ASM_7005_TestCase
ASM-TA-7011	ASM_7006_TestCase
ASM-TA-7012	ASM_7007_TestCase
ASM-TA-7013	ASM_7008_TestCase
ASM-TA-7014	ASM_7009_TestCase

608

609

Test Assertion	Test Cases
ASM-TA-8001	ASM_8001_TestCase
ASM-TA-8002	ASM_8002_TestCase
ASM-TA-8003	Untestable
ASM-TA-8004	ASM_8003_TestCase
ASM-TA-8005	ASM_8004_TestCase
ASM-TA-8006	ASM_8005_TestCase
ASM-TA-8007	ASM_8003_TestCase
ASM-TA-8008	ASM_8006_TestCase
ASM-TA-8009	ASM_8007_TestCase
ASM-TA-8010	ASM_8008_TestCase
ASM-TA-8011	ASM_8009_TestCase ASM_8018_TestCase
ASM-TA-8012	ASM_8010_TestCase
ASM-TA-8013	ASM_8011_TestCase
ASM-TA-8014	ASM_8012_TestCase

	ASM_8017_TestCase
ASM-TA-8015	ASM_8013_TestCase
ASM-TA-8018	ASM_8014_TestCase
ASM-TA-8020	ASM_8015_TestCase
ASM-TA-8021	ASM_8016_TestCase
ASM-TA-8022	ASM_8019_TestCase

610

611

Test Assertion	Test Cases
ASM-TA-9002	ASM_9001_TestCase
ASM-TA-9003	ASM_9002_TestCase
ASM-TA-9004	ASM_9003_TestCase
ASM-TA-9005	ASM_9004_TestCase

612

613

Test Assertion	Test Cases
ASM-TA-10001	ASM_10001_TestCase
ASM-TA-10002	ASM_10002_TestCase
ASM-TA-10003	ASM_10003_TestCase

614

615

Test Assertion	Test Cases
ASM-TA-12001	Untestable
ASM-TA-12002	ASM_12001_TestCase
ASM-TA-12003	ASM_12001_TestCase
ASM-TA-12005	ASM_12002_TestCase
ASM-TA-12006	ASM_12003_TestCase
ASM-TA-12007	ASM_12004_TestCase
ASM-TA-12008	Optional - not worth testing
ASM-TA-12009	Optional - not worth testing
ASM-TA-12010	ASM_12005_TestCase
ASM-TA-12011	ASM_12002_TestCase
ASM-TA-12012	ASM_12003_TestCase
ASM-TA-12013	ASM_12006_TestCase
ASM-TA-12014	Optional - not worth testing
ASM-TA-12015	Optional - not worth testing

ASM-TA-12016	Optional - not worth testing
ASM-TA-12017	Optional - not worth testing
ASM-TA-12018	Optional - not worth testing
ASM-TA-12019	Requires an SCA runtime configuration update API
ASM-TA-12020	Optional - not worth testing Requires an SCA runtime configuration update API
ASM-TA-12021	Optional - not worth testing Requires an SCA runtime configuration update API
ASM-TA-12022	Optional - not worth testing Requires an SCA runtime configuration update API
ASM-TA-12023	Optional - not worth testing Requires an SCA runtime configuration update API
ASM-TA-12024	Optional - not worth testing Requires an SCA runtime configuration update API
ASM-TA-12025	Optional - not worth testing Requires an SCA runtime configuration update API
ASM-TA-12026	Optional - not worth testing Requires an SCA runtime configuration update API
ASM-TA-12027	ASM 12007 TestCase
ASM-TA-12028	ASM 12008 TestCase
ASM-TA-12029	ASM 12009 TestCase
ASM-TA-12030	ASM 12010 TestCase
ASM-TA-12031	ASM 12011 TestCase
ASM-TA-12032	ASM 12012 TestCase
ASM-TA-12033	Optional - not worth testing
ASM-TA-12034	Optional - not worth testing
ASM-TA-12035	ASM 12013 TestCase

617

<b>Test Assertion</b>	<b>Test Cases</b>
ASM-TA-13001	ASM_13001_TestCase ASM_13002_TestCase ASM_13003_TestCase ASM_13004_TestCase ASM_13005_TestCase ASM_13006_TestCase ASM_13007_TestCase ASM_13008_TestCase
ASM-TA-13002	ASM 12012 TestCase
ASM-TA-13003	ASM 10003 TestCase

618

619

<b>Test Assertion</b>	<b>Test Cases</b>
ASM-TA-14001	Optional - not worth testing
ASM-TA-14002	Optional - not worth testing
ASM-TA-14003	Untestable
ASM-TA-14004	Optional - not worth testing

620

## 4 Catalog of Test Artifacts

621

### 4.1 Composite Files - lower level

622

Name	Valid	Description
Marked <i>"Impl Specific"</i> if it is implementation type specific		<i>Services and References use interface Service1 unless described otherwise</i>
TestComposite1.composite <i>"Impl Specific"</i>	Y	1 service
TestComposite2.composite <i>"Impl Specific"</i>	N	2 services - with same name 0 references
TestComposite3.composite <i>"Impl Specific"</i>	N	1 service, 2 references - with same name
TestComposite4.composite <i>"Impl Specific"</i>	Y	1 service, 1 reference (1..1)
TestComposite5.composite <i>"Impl Specific"</i>	Y	1 service - interface = Service2 0 references
TestComposite6.composite <i>"Impl Specific"</i>	Y	1 service, 1 reference (1..n)
TestComposite7.composite <i>"Impl Specific"</i>	Y	1 service, 1 reference (0..n)
TestComposite8.composite <i>"Impl Specific"</i>	Y	1 service, 1 reference (0..1)
TestComposite9.composite <i>"Impl Specific"</i>	Y	1 service - superset interface = Service1Superset 0 references
TestComposite10.composite	Y	1 service 1 reference with binding and target
TestComposite11.composite	N	1 service, 1 reference 1 component with 1..1 reference that is wired and promoted
TestComposite12.composite	Y	1 service

		0 references 1 property of complex type typed with @type
TestComposite13.composite	Y	1 service 0 references 1 property of complex type typed with @element
TestComposite14.composite	Y	1 service 0 references 1 property of simple type
TestComposite15.composite	Y	1 service - with multiple bindings declared 0 references
TestComposite16.composite	N	3 services - 2 with same name
TestComposite17.composite	N	2 services - 1 with invalid @promote value
TestComposite18.composite	Y	1 service - service interface is compatible subset of interface of promoted component service
TestComposite19.composite	N	1 service, 2 references - with same name
TestComposite20.composite	N	1 service, 1 reference with invalid @promote value
TestComposite21.composite	Y	1 service, 1 reference (1..1) with interface that is compatible superset of interface of promoted component reference
TestComposite22.composite	Y	1 service, 1 reference (1..1) promotes 2 component references with different interfaces declared (Service1, Service1Superset)
TestComposite23.composite	Y	1 service, 1 reference (1..1) that promotes component reference with (0..1) multiplicity
TestComposite24.composite	Y	1 service, 1 reference (0..1) that promotes component reference with (0..n) multiplicity
TestComposite25.composite	Y	1 service, 1 reference (1..1) that promotes component reference with (1..n) multiplicity
TestComposite26.composite	N	1 service,

		1 reference, 3 properties - all with same name
TestComposite27.composite	Y	1 service, 2 components, one with @autowire="true" reference , one with service with compatible interface
TestComposite28.composite	Y	1 service, 2 components, one with @autowire="true" reference , one with service with superset interface
TestComposite29.composite	Y	1 service, 4 components, 1 with @autowire="true" reference + set of intents, 1 with service with compatible interface + same set of intents, 2 with service with compatible interface and different set of intents
TestComposite30.composite	N	1 service, 2 components, one with @autowire="true" reference + set of intents, one with service with compatible interface but different set of intents
TestComposite31.composite	N	1 service, composite service has a @promote URI that does not point to a component service within the composite 0 references
TestComposite32.composite	N	1 service, contains a component with a 1..n reference that is neither promoted nor wired internally in the composite
TestComposite33.composite	Y	1 service, 2 properties, plus a component with multiple properties which are sourced from the composite properties
TestComposite34.composite	Y	Composite designed for including within another composite - contains 1 component only
TestComposite35.composite	Y	1 service and 1 reference, where the component that implements the service & reference is included from a second composite (TestComposite36)
TestComposite36.composite	Y	Composite designed for inclusion within another composite - contains 1 component that implements 1 service and 1 reference
TestComposite37.composite	Y	Composite designed for inclusion within another composite - contains 2 components, #1 has 1 service and 1 reference, #2 has 1 service
TestComposite38.composite	Y	Has @local=true, containing 2 components, #1 has 1 service and 1 reference, #2 has 1 service - reference of #1 is wired to service of #2
TestComposite39.composite	N	1 service, 1 reference where the reference has an intent that is mutually exclusive with an intent on the component reference

		which it promotes
TestComposite40.composite	<b>N</b>	1 service, 1 reference where the reference has @requires containing 2 mutually exclusive intents
TestComposite41.composite	<b>N</b>	1 service, 1 reference, where the reference multiplicity is 0..1 but the component reference which it promotes has multiplicity 1..1
TestComposite42.composite	<b>Y</b>	1 service, composite has @constrainingType set to a constrainingType to which the composite does conform
TestComposite43.composite	<b>Y</b>	1 service, 1 reference, 2 properties. 1 property declares its type using the @type attribute
TestComposite44.composite	<b>Y</b>	1 service, 1 reference, 2 properties. 1 property declares its type using the @element attribute
TestComposite45.composite	<b>N</b>	1 service, 1 reference, 2 properties. 1 property declares its type using both an @element attribute and a @type attribute
TestComposite46.composite	<b>Y</b>	1 service, 1 reference, 2 properties. 1 property declares @mustSupply=true
TestComposite47.composite	<b>N</b>	1 service, 2 references - the references have the same @name attribute value
TestComposite48.composite	<b>Y</b>	2 services
TestComposite49.composite	<b>Y</b>	1 services 2 references, 1 of (0..1), 1 of (0..n)
TestComposite50.composite	<b>Y</b>	1 service, 2 properties with @mustSupply="false"
TestComposite51.composite	<b>N</b>	1 service - with invalid remotable interface - Service3 - that has 2 operations with the same name
TestComposite52.composite <i>"Impl Specific"</i>	<b>Y</b>	1 service with Service4 interface
TestComposite53.composite <i>"Impl Specific"</i>	<b>Y</b>	1 service 1 reference with Service4 interface



		contains a component which checks whether an input parameter is modified during invocation of an operation on the Service4 interface
TestComposite54.composite	Y	(ASM_8003) 1 service 1 reference with a callback - Service5 & Service5Callback
TestComposite55.composite	Y	(ASM_8003) 1 service with callback - Service5 & Service5Callback
TestComposite56.composite	Y	(ASM_8004) 1 service 1 reference with callback - Service6 & Service6Callback
TestComposite57.composite	Y	(ASM_8004) 1 service with callback - Service6 & Service6Callback
TestComposite58.composite	Y	(ASM_8005) 1 service 1 reference with callback - Service7 and Service7Callback
TestComposite59.composite	Y	(ASM_8005) 1 service with callback - Service7 and Service7Callback
TestComposite60.composite	Y	(ASM_8006) 1 service 1 reference with callback - Service9 & Service9Callback
TestComposite61.composite	Y	(ASM_8006) 1 service with callback - Service9 & Service9Callback
TestComposite62.composite	N	(ASM_8003) 1 service, 1 reference with callback Callback interface of composite reference is not compatible with callback interface of promoted component reference
TestComposite63.composite	N	(ASM_8003) 1 service with callback - where the callback interface is not compatible with the callback interface on the promoted component service - Service5 & Service8Callback
TestComposite64.composite	N	(ASM_8012) 1 service 1 reference (0..1) with callback - Service1 & Service5Callback - where the promoted component reference has no callback

		declared
TestComposite65.composite	Y	(ASM_8003) 1 service with a callback - Service5 & Service5Callback - where the implementing component invokes the callback operation multiple times for a single invocation of the forward interface
TestComposite66.composite <i>"Impl Specific"</i>		1 service, remotable, service has Confidentiality applied 0 references
TestComposite67.composite	Y	* copy of TestComposite5 but in namespace http://oasis/tests2
TestComposite68.	Y	Wrapper of TestComposite5 but in namespace http://oasis/tests2
TestComposite69.composite	Y	1 service * wrapper of TestComposite1 in namespace http://oasis/tests2
TestComposite70.composite <i>"Impl Specific"</i>	Y	1 service, 1 reference (1..1) - interface Service1Superset
TestComposite71.composite <i>"Impl Specific"</i>	Y	1 service 0 references 2 properties of type string
TestComposite72.composite	N	(ASM_8017) 1 service 1 service with callback - Service1 & Service5Callback - where the promoted component service has no callback declared 0 references

623

## 624 4.2 Constraint Files

625

Name	Description
Test_ASM_7001.constraint	2 services 0 references 1 property
Test_ASM_7002.constraint	1 service 2 references 2 properties

Test_ASM_7003.constraint	1 service 0 references 2 properties
Test_ASM_7004.constraint	1 service 1 property
TestComposite42.constraint	1 service 1 property
Test_ASM_7010_A.constraint	1 service 1 reference 1 property Same @name value as Test_ASM_7010_B.constraint
Test_ASM_7010_B.constraint	1 service 0 references 1 property Same @name value as Test_ASM_7010_A.constraint

626

### 4.3 Java Interfaces

627

Name	Description
test.Service1.java	1 operation with 1 input, 1 output parameter
test.Service2.java	Remotable service interface that is not compatible with Service1 interface
test.Service1Superset.java	Remotable service interface which is a superset of Service1 interface 2 operations with 1 input, 1 output parameter
test.Service3.java	(ASM_8001) Remotable interface with 2 operations with the same name - it is also a superset of Service1
test.Service4.java	Remotable service interface 1 operation with 1 input, 1 output parameter - input parameter is a Java mutable type
test.Service5.java	Remotable service interface with a Callback

	interface (Service5Callback) 1 operation with 1 input, 1 output parameter
test.Service5Callback.java	Remotable callback interface for Service5, 1 operation with 1 input, 1 output parameter
test.Service1_Intent	Service1 interface + Confidentiality intent 1 operation with 1 input, 1 output parameter
test.Service6.java	Remotable service interface with a local callback interface (Service6Callback) 1 operation with 1 input, 1 output parameter
test.Service7.java	Local service interface with a remotable callback interface (Service7Callback) 1 operation with 1 input, 1 output parameter
test.Service6Callback.java	Callback interface for Service6 - local 1 operation with 1 input, 1 output parameter
test.Service7Callback.java	Callback interface for Service7 - remotable 1 operation with 1 input, 1 output parameter
test.Service8Callback	Remotable callback interface incompatible with Service5Callback interface

628 **4.4 Java Implementation Classes**

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Name	Description
	Services and references use interface Service1 unless otherwise described
test.service1Impl.java	1 service 0 references
test.service1Impl2.java	1 service 1 reference (1..1)
test.service1Impl3.java	1 service 1 reference (1..n)

test.service1Impl4.java	1 service 1 reference (0..n)
test.service1Impl5.java	1 service 0 references 3 properties
test.service1Impl6.java	1 service 1 reference (0..1)
test.service1impl7.java	1 service 1 reference (1..1) with interface Service4 - operation1 method calls reference operation and checks for modification of the input parameter
test.Service1Impl8.java	1 service 1 reference (1..1) - interface Service1Superset
test.service2Impl.java	1 service with interface Service2
test.service1SupersetImpl.java	1 service with interface Service1Superset
test.service3Impl.java	1 service with interface Service3
test.service4impl.java	1 service with interface Service4 - service operation modifies input parameter
test.service6Impl.java	1 service with interface Service6
test.service7Impl.java	1 service with interface Service7
test.service1Callback6Impl.java	1 service 1 reference with Service6/Service6Callback interfaces
test.service1Callback7Impl.java	1 service 1 reference with Service7/Service7Callback
TestException.java	Exception returned if test application receives an exception during execution
TestInvocation.java	Client testcase invocation interface
ASM_0001_Client.java	Client invocation component 1 service 0 references
ASM_0002_Client.java	"Standard" client invocation component

	1 service 1 reference (0..1)
ASM_0003_Client.java	Client invocation component 1 service 1 reference (1..n)

## 630 4.5 WSDL Interface Files

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Name	Description
Service1.wsdl	portType = Service1 1 operation with 1 input, 1 output parameter
Service1Superset.wsdl	portType = Service1Superset - superset of Service1 2 operations - 1 input, 1 output parameter
Service1_Intent.wsdl	portType = Service1_Intent equivalent to Service1, but with @requires="sca:confidentiality" applied to the portType element 1 operation with 1 input, 1 output parameter
Service1a.wsdl	Version of Service1.wsdl containing no XML type declarations, but instead containing a @schemaLocation attribute, but one which points to an valid XSD file
Service1b.wsdl	Version of Service1.wsdl containing no XML type declarations, but instead containing a @schemaLocation attribute, but one which points to an invalid file
Service2.wsdl	1 service - incompatible with Service1 1 operation with 1 input, 1 output parameter
Service3.wsdl	portType = Service3 2 operations - overloaded with the same name operation1 has string in string out operation1a has int in string out
Service4.wsdl	portType = Service4

	1 operation with 1 input, 1 output parameter - input parameter is stringBuffer
Service5.wsdl	Remotable service interface with a single operation with 1 input and 1 output parameter and a Callback interface
Service9.wsdl	Remotable service interface, with @callback attribute applied to the portType element 1 operation with 1 input and 1 output parameter
Service5Callback.wsdl	Remotable callback interface for Service5, with a single operation with 1 input and 1 output parameter
Service8Callback.wsdl	Callback interface which is not compatible with other Callback interfaces (uses a different operation name) 1 operation with 1 input and 1 output parameter
Service9Callback.wsdl	Callback interface for Service9 1 operation with 1 input and 1 output parameter

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633 **5 Conformance**

634 There are no conformance statements relating to the TestCases.

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636 **Appendix A. Acknowledgments**

637 The following individuals have participated in the creation of this specification and are gratefully  
638 acknowledged

639 **Participants:**

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<b>Participant Name</b>	<b>Affiliation</b>
Bryan Aupperle	IBM
Vladislav Bezrukov	SAP AG*
David Booz	IBM
Martin Chapman	Oracle Corporation
Vamsavardhana Reddy Chillakuru	IBM
Mark Combella	Avaya, Inc.
Mike Edwards	IBM
Anish Karmarkar	Oracle Corporation
Ashok Malhotra	Oracle Corporation
Plamen Pavlov	SAP AG*
Eric Wells	Hitachi, Ltd.

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## Appendix B. Non-Normative Text

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## Appendix C. Revision History

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Revision	Date	Editor	Changes Made
17	2009-04-15	Mike Edwards	Section 4 testcases added
18	2009-04-16	Mike Edwards	Section 7 testcases added Tables of Artifacts added
19	05/04/09	Mike Edwards	Section 8, 9, 10 testcases added
20	05/06/09	Mike Edwards	Section 12 testcases added
21	05/06/09	Mike Edwards	Section 13, 14 testcases added. All sections now covered.
22	05/19/09	Mike Edwards	Most testcases converted to WSDL interfaces
23	06/02/09	Mike Edwards	Added Acknowledgements Added missing descriptions of artifacts Added extra testcases to cover previously untreated Test Assertions
24	06/10/09	Mike Edwards	Added ASM_7010_TestCase Added ASM_8017_TestCase Added ASM_8018_TestCase Added ASM_8019_TestCase Added Namespace and Package Name declarations
25	06/16/09	Mike Edwards	CD01 / Public Review draft 01 All changes accepted, file name changed to match OASIS guidelines.

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