



TestCases for the SCA Assembly Model Version 1.1 ~~Specification~~

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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.

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1 Introduction

This document defines the TestCases for the SCA Assembly specification. [\[ASSEMBLY\]](#)

The tests described in this document are [derived from the normative statements in SCA Assembly specification via Test Assertions which are described in Appendix A, "Test Assertions for the SCA Assembly Model" related to the Test Assertions described in the SCA Assembly Test Assertions document \[ASMTA\]](#).

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.

39 Test Application

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

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

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

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

55 Which implementation language to use for test artifacts is controlled by a system variable or environment
56 variable which is read by the test client application, with the name "OASIS_TESTENV_IMPL_LANG".
57 This variable can have one of the following values:

- 58 • "Java" - for Java implementations
- 59 • "BPEL" - for WS_BPEL process implementations
- 60 • "CPP" - for C++ implementations

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

62 Test Artifacts Organization

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

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

71 Broadly, Contribution names are as follows:

- 72 • ASM_nnnn - a contribution that is specific for a particular testcase, where "nnnn" is the num-
73 ber of the testcase. Often this is required because a particular testcase involves artifacts that
74 contain errors that are statically checkable - an SCA runtime is permitted to reject such artifacts
75 when they are contributed and deployed and it is important to ensure that contributions containing
76 deliberate errors for one testcase do not interfere with the operation of other testcases.
- 77 • ASM_nnnn_Java - a contribution for a specific testcase where there is a need for language spe-
78 cific artifacts that relate to that testcase alone
- 79 • General - a shared contribution containing implementation type independent artifacts that can be
80 used by many testcases.
- 81 • General_Java - a shared contribution containing implementation type dependent artifacts for
82 Java POJOs. These artifacts can include both Java classes and also SCA composites that dir-
83 ectly use Java classes.

- 84 • General_BPEL - a shared contribution containing implementation type dependent artifacts for
85 BPEL processes. These artifacts can include both BPEL processes and also SCA composites
86 that directly use BPEL processes.
- 87 • Contribution1, Contribution2, etc - contributions that are used by various testcases that are test-
88 ing the handling of SCA contributions

89 Note that the names of Contributions containing implementation specific artifacts ends with a name that is
90 specific to the implementation type - so "_Java" is used for Java implementations, "_BPEL" is used for
91 BPEL implementations, "_CPP" is used for C++ implementations (and so on). Note that the name follow-
92 ing the underscore matches the name used in the "OASIS_TESTENV_IMPL_LANG" variable used to
93 control execution of the test client. The concept is that where there is an implementation type specific
94 contribution, each implementation type must provide its own versions of the same basic artifacts. Typic-
95 ally, this means that each contribution must contain the same set of Composites, but that the implementa-
96 tion type dependent artifacts that these composites use will differ from implementation type to implement-
97 ation type.

98 Basically, the setting of the variable is used to select the suffix used for implementation type dependent
99 contributions. If the variable is set to "Java" then the contribution "General_Java" is selected, whereas if
100 the variable is set to "BPEL", the contribution "General_BPEL" is selected.

101 **Replaceable Values for SCA Artifacts**

102 In general, the SCA artifacts contained in the various contributions cannot be changed - such changes
103 would invalidate the test suite. However, there are a small number of instances where there is a need to
104 adjust some values used in the SCA artifacts to meet the configuration of the SCA Runtime under test.
105 This in particular applies to some service endpoint addresses of some Web services that occur in some of
106 the testcases.

107 To deal with this situation, the adjustable values are expressed in terms of XML Entities, with Entity Refer-
108 ences used within SCA artifacts such as composites. The XML Entities are declared within a DTD file,
109 which is referenced from the SCA artifact files. The Entity values declared in the DTD file can be changed
110 to match the configuration of the SCA Runtime under test - this is the only change permitted to the SCA
111 artifacts when run against a particular SCA runtime.

112 The DTD file has the name *sca_variables.dtd* and it is contained in the **General** contribution.

113 Each Entity value declared in the *sca_variables.dtd* file has an explanation of what the Entity is intended
114 to hold and it is expected that the values will be adjusted to suit the runtime under test before the test
115 suite is executed.

116 **1.2 Namespaces and Java Package Names**

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

119 **SCA Artifact Namespaces**

120 These apply to artifacts such as Composites

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

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

123 **WSDL Namespace**

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

125 **Java Package name**
126 For Java interface classes and for Java implementation classes
127 org.oasisopen.sca.test

128 **1.3 Terminology**

129 The keywords "MUST", "MUST NOT", "REQUIRED", "SHALL", "SHALL NOT", "SHOULD", "SHOULD
130 NOT", "RECOMMENDED", "MAY", and "OPTIONAL" in this specification are to be interpreted as de-
131 scribed in IETF RFC 2119 [RFC 2119]

132 **1.4 Normative References**

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

136 ~~**[ASM-TA]** Oasis Committee Draft 02, *Test Assertions for the SCA Assembly Model Version 1.1-*
137 *Specification*, June 2010. [http://docs.oasis-open.org/opencsa/sca-assembly/sca-](http://docs.oasis-open.org/opencsa/sca-assembly/sca-assembly-1.1-test-assertions-cd02.pdf)
138 [assembly-1.1-test-assertions-cd02.pdf](http://docs.oasis-open.org/opencsa/sca-assembly/sca-assembly-1.1-test-assertions-cd02.pdf)~~

139 ~~Non-normative References~~

140 ~~None~~

141

142 ~~**[ASSEMBLY]** OASIS Committee Draft 08, *SCA Assembly Model Specification Version 1.1*, May
143 2011. [http://docs.oasis-open.org/opencsa/sca-assembly/sca-assembly-1.1-spec-](http://docs.oasis-open.org/opencsa/sca-assembly/sca-assembly-1.1-spec-csd08.pdf)
144 [csd08.pdf](http://docs.oasis-open.org/opencsa/sca-assembly/sca-assembly-1.1-spec-csd08.pdf)~~

145 ~~**[TA-GUIDE]** OASIS Committee Draft 05, *Test Assertions Guidelines Version 1.0*, August
146 2010 [http://docs.oasis-](http://docs.oasis-open.org/tag/guidelines/v1.0/cd05/testassertionsguidelines-cd-05.pdf)
147 [open.org/tag/guidelines/v1.0/cd05/testassertionsguidelines-cd-05.pdf](http://docs.oasis-open.org/tag/guidelines/v1.0/cd05/testassertionsguidelines-cd-05.pdf)~~

148 **1.5 Non_Normative References**

149 **1.6 Non-Normative References**

150 N/A

151 **2 TestCases**

152 **2.1 Section 34**

153 **ASM_4002_TestCase**

154

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"

155 **ASM_4003_TestCase**

156

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"

157 **ASM_4004_TestCase**

158

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"

159

160 **ASM_4005_TestCase**

161

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"

162

163 **ASM_4006_TestCase**

164

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"

165

166 **ASM_4007_TestCase**

167

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"

168

169 **ASM_4008_TestCase**

170

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"

171

172 | **2.2 Section 45**

173 | **ASM_5002_TestCase**

174

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"
--	--

175

176 **ASM_5003_TestCase**

177

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"

178

179 **ASM_5004_TestCase**

180

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"

181

182 **ASM_5005_TestCase**

183

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"

184

185 **ASM_5006_TestCase**

186

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"

187

188 **ASM_5007_TestCase**

189

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"

190

191

192

193 **ASM_5008_TestCase**

194

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"

195

196

197 **ASM_5009_TestCase**

198

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”

199

200 **ASM_5010_TestCase**

201

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 <component-Type/> 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”

202

203

204 **ASM_5011_TestCase**

205

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"

206

207 **ASM_5012_TestCase**

208

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”
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210

211 **ASM_5013_TestCase**

212

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”

213

214

215 **ASM_5014_TestCase**

216

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"

217

218

219 **ASM_5015_TestCase**

220

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"

221

222

223 **ASM_5016_TestCase**

224

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”

225

226

227 **ASM_5017_TestCase**

228

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”

229

230 **ASM_5018_TestCase**

231

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 component-Type 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"

232

233 **ASM_5019_TestCase**

234

Testcase ID	ASM_5019_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"

235

236 **ASM_5020_TestCase**

237

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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240

241 **ASM_5021_TestCase**

242

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"

243

244

245 **ASM_5022_TestCase**

246

Testcase ID	ASM_5022_TestCase
Test Assertion	ASM-TA-5028
Description	Tests that where a <component/> <reference/> with multiplicity=0..1 is un-wired (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"

247

248

249 **ASM_5023_TestCase**

250

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"
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253 **ASM_5024_TestCase**

254

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"

255

256

257 **ASM_5025_TestCase**

258

Testcase ID	ASM_5025_TestCase
Test Assertion	ASM-TA-5032 ASM-TA-5046
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"

259

260

261 **ASM_5026_TestCase**

262

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"

263

264 **ASM_5027_TestCase**

265

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"
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267

268 **ASM_5029_TestCase**

269

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"

270

271

272 **ASM_5030_TestCase**

273

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"
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274

275 **ASM_5031_TestCase**

276

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"

277

278 **ASM_5032_TestCase**

279

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 sca-variables.dtd
Expected output	Positive test: "ASM_5032 request service1 operation1 invokedservice2 operation1 in- vokedservice2 operation1 invoked"

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281

282

283 **ASM_5033_TestCase**

284

Testcase ID	ASM_5033_TestCase
Test Assertion	ASM-TA-5008
Description	Tests that where a <component/> <service/> has no <binding/> subele- ments and the corresponding <service/> element of the <componentType/> of the <component/> <implementation/> has no <bind- ing/> 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 in- vokedservice2 operation1 invoked"

285

286

287

288 **ASM_5034_TestCase**

289

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 sca-variables.dtd
Expected output	Positive test: "ASM_5034 request service1 operation1 invokedservice2 operation1 invokedservice2 operation1 invoked"

290

291 **ASM_5035_TestCase**

292

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"

293

294 **ASM_5036_TestCase**

295

Testcase ID	ASM_5036_TestCase
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Test Assertion	ASM-TA-5041 ASM-TA-5046
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"

296

297 **ASM_5037_TestCase**

298

Testcase ID	ASM_5037_TestCase
Test Assertion	ASM-TA-5042
Description	Tests that a <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"

299

300 **ASM_5038_TestCase**

301

Testcase ID	ASM_5038_TestCase
Test Assertion	ASM-TA-5031
Description	Tests that where a <component/> <property/> element has an XML schema simple type and has a @value attribute declared, that the @value attribute value contains a single value with a type matching the type of the <property/> element
Artifacts	ASM_5038_TestCase.java Test_ASM_5038.composite TestInvocation.wsdl TestClient_0002.composite TestComposite73.composite Service1.wsdl
Expected output	Negative test: "exception"

302

303 **ASM_5039_TestCase**

304

Testcase ID	ASM_5039_TestCase
Test Assertion	ASM-TA-5045
Description	Tests that where a property element of a component declares a type and has a @source attribute that gets the value of the property from a composite <property/> element, that the type of the component property is compatible with the type of the composite property
Artifacts	ASM_5039_TestCase.java Test_ASM_5039.composite TestInvocation.wsdl TestClient_0002.composite TestComposite12.composite TestComposite71.composite Service1.wsdl
Expected output	Negative test: "exception"

305

306 **ASM_5040_TestCase**

307

Testcase ID	ASM_5040_TestCase
Test Assertion	ASM-TA-5047
Description	Tests that where a component <reference/> of multiplicity 1..1 has @nonOverridable="true", that the reference is not promoted by a composite reference
Artifacts	ASM_5040_TestCase.java Test_ASM_5040.composite TestInvocation.wsdl TestClient_0002.composite TestComposite74.composite Service1.wsdl
Expected output	Negative test: "exception"

308

309 **ASM_5041_TestCase**

310

Testcase ID	ASM_5041_TestCase
Test Assertion	ASM-TA-5048
Description	Tests that where a component <reference/> has no @autowire attribute, no @target attribute, no <binding/> subelement and is not promoted by a composite reference, and where the component declares @autowire="true" and where the composite containing the component contains one target service that is compatible with the reference, that the reference is wired to that target service and can invoke the service
Artifacts	ASM_5041_TestCase.java Test_ASM_5041.composite TestInvocation.wsdl TestClient_0002.composite TestComposite8.composite TestComposite1.composite Service1.wsdl
Expected output	Positive test: "ASM_5041 request service1 operation1 invoked second operation1 invoked"

311

312 **ASM_5042_TestCase**

313

Testcase ID	ASM_5042_TestCase
Test Assertion	ASM-TA-5049
Description	Tests that where a component <reference/> has no @autowire attribute, no @target attribute, no <binding/> subelement and is not promoted by a composite reference, and where the component does not declare an @autowire attribute but the composite containing the component declares @autowire="true" and where the composite containing the component contains one target service that is compatible with the reference, that the reference is wired to that target service and can invoke the service
Artifacts	ASM_5042_TestCase.java Test_ASM_5042.composite TestInvocation.wsdl TestClient_0002.composite TestComposite8.composite TestComposite1.composite Service1.wsdl
Expected output	Positive test: "ASM_5042 request service1 operation1 invoked second operation1 invoked"

314

315 **ASM_5043_TestCase**

316

Testcase ID	ASM_5043_TestCase
Test Assertion	ASM-TA-5051 ASM-TA-5052
Description	Tests that where a component <property/> element which is single valued and with a simple XML type has a @file attribute which references a file that has one <sca:values/> element containing one <sca:value/> element containing a string value, that the value from the file does set the property value used by the component
Artifacts	ASM_5043_TestCase.java Test_ASM_5043.composite TestInvocation.wsdl TestClient_0002.composite TestComposite71.composite simpleProperty.xml (in contribution "General")
Expected output	Positive test:

	"ASM_5043 request service1 operation1 invoked 2.71828 2.71828"
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317

318 **[ASM_5044_TestCase](#)**

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Testcase ID	ASM_5044_TestCase
Test Assertion	ASM-TA-5051 ASM-TA-5053
Description	Tests that where a component <property/> element which is multi valued and with a complex XML type has a @file attribute which references a file tat has one <sca:values/> element containing two global elements of the type of the property, that the values from the global elements do set the property values used by the component
Artifacts	ASM_5044_TestCase.java Test_ASM_5044.composite TestInvocation.wsdl TestClient_0002.composite TestComposite76.composite TestComposite71.composite
Expected output	Positive test: "ASM_5044 request service1 operation1 invoked Sample first data Alternate second data"

320

321 **[2.3 Section 5](#)**

322 **[2.4 Section 6](#)**

323 **[ASM_6001_TestCase](#)**

324

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”

325

326

327 **ASM_6002_TestCase**

328

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”

329

330

331 **ASM_6003_TestCase**

332

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"

333

334 **ASM_6004_TestCase**

335

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"

336

337 **ASM_6005_TestCase**

338

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"
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339

340 **ASM_6006_TestCase**

341

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"

342

343

344 **ASM_6007_TestCase**

345

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"

346

347 **ASM_6008_TestCase**

348

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"

349

350 **ASM_6009_TestCase**

351

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 output	Positive test: "ASM_6009 request service1 operation1 invokedservice2 operation1 invoked"

352

353 **ASM_6010_TestCase**

354

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"

355

356

357 **ASM_6011_TestCase**

358

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"

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361 **ASM_6012_TestCase**

362

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"

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365 **ASM_6013_TestCase**

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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"

367

368

369 **ASM_6014_TestCase**

370

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"

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374 **ASM_6016_TestCase**

375

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"

376

377

378 **ASM_6017_TestCase**

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Testcase ID	ASM_6017_TestCase
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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"

380

381

382 **ASM_6018_TestCase**

383

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"

384

385 **ASM_6019_TestCase**

386

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"

387

388 **ASM_6020_TestCase**

389

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"

390

391 **ASM_6021_TestCase**

392

Testcase ID	ASM_6021_TestCase
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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"

393

394

395 **ASM_6022_TestCase**

396

Testcase ID	ASM_6022_TestCase
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"

397

398 **ASM_6023_TestCase**

399

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"

400

401 **ASM_6024_TestCase**

402

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"

403

404 **ASM_6025_TestCase**

405

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"
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406

407 **ASM_6026_TestCase**

408

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"

409

410 **ASM_6027_TestCase**

411

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"

412

413 **ASM_6028_TestCase**

414

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"

415

416 **ASM_6029_TestCase**

417

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"

418

419 **ASM_6030_TestCase**

420

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"

421

422 **ASM_6031_TestCase**

423

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"

424

425 **ASM_6032_TestCase**

426

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"

427

428 **ASM_6033_TestCase**

429

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"

430

431 **ASM_6034_TestCase**

432

Testcase ID	ASM_6034_TestCase
Test Assertion	ASM-TA-6042
Description	Tests that when a <wire/> element connects a component <reference/> to a component <service/>, that the interface of the service is a compatible superset of the interface of the reference
Artifacts	ASM_6034_TestCase.java Test_ASM_6034.composite TestInvocation.wsdl TestClient_0002.composite TestComposite9.composite TestComposite4.composite
Expected output	Positive test: "ASM_6034 request service1 operation1 invoked service2 operation1 invoked"

433

434 **ASM_6035_TestCase**

435

Testcase ID	ASM_6035_TestCase
Test Assertion	ASM-TA-6044
Description	Tests that when a component<reference/> element has a @target attribute containing a single target in the form "component-name/service-name" and the component with the name "component-name" has multiple services, each of which are compatible with the reference, and one of which has the name "service-name", that the reference is wired to the service with the name "service-name" and is able to invoke it.
Artifacts	ASM_6035_TestCase.java Test_ASM_6035.composite TestInvocation.wsdl TestClient_0002.composite

	TestComposite75.composite TestComposite1.composite
Expected output	Positive test: "ASM_6035 request serviceA operation1 invoked"

436

437 **ASM_6036_TestCase**

438

Testcase ID	ASM_6036_TestCase
Test Assertion	ASM-TA-6045
Description	Tests that when a component<reference/> element has a @target attribute containing a single target in the form "component-name/service-name" and the component with the name "component-name" has multiple services, each of which are compatible with the reference, but none of them has the name "service-name", that the reference is not wired to any service and the SCA runtime raises an error
Artifacts	ASM_6036_TestCase.java Test_ASM_6036.composite TestInvocation.wsdl TestClient_0002.composite TestComposite75.composite TestComposite1.composite
Expected output	Negative test: "exception"

439

440 **ASM_6037_TestCase**

441

Testcase ID	ASM_6037_TestCase
Test Assertion	ASM-TA-6046
Description	Tests that when a component<reference/> element has a @target attribute containing a single target in the form "component-name" and the component with the name "component-name" has a single service with the name "service-name", which is compatible with the reference, that the reference is wired to the service and is able to invoke it
Artifacts	ASM_6037_TestCase.java Test_ASM_6037.composite TestInvocation.wsdl TestClient_0002.composite

	TestComposite1.composite
Expected output	Positive test: "ASM_6037 request service1 operation1 invoked"

442

443 **ASM_6038_TestCase**

444

Testcase ID	ASM_6038_TestCase
Test Assertion	ASM-TA-6047
Description	Tests that when a component<reference/> element has a @target attribute containing a single target in the form "component-name/service-name/binding-name" and the component with the name "component-name" has a service with the name "service-name" with a binding with the name "binding-name", which is compatible with the reference, that the reference is wired to the service and is able to invoke it
Artifacts	ASM_6038_TestCase.java Test_ASM_6038.composite TestInvocation.wsdl TestClient_0002.composite TestComposite1.composite
Expected output	Positive test: "ASM_6038 request service1 operation1 invoked"

445

446 **ASM_6039_TestCase**

447

Testcase ID	ASM_6039_TestCase
Test Assertion	ASM-TA-6048
Description	Tests that when a component<reference/> element has a @target attribute containing a single target in the form "component-name/service-name/binding-name" and the component with the name "component-name" has a service with the name "service-name" which is compatible with the reference, but which does not have a binding with the name "binding-name", that the reference is not wired to the service and the SCA runtime raises an exception
Artifacts	ASM_6039_TestCase.java Test_ASM_6039.composite TestInvocation.wsdl TestClient_0002.composite

	TestComposite1.composite
Expected output	Negative test: "exception"

448

449 **ASM_6040_TestCase**

450

Testcase ID	ASM_6040_TestCase
Test Assertion	ASM-TA-6049
Description	Tests that when a component<reference/> element has a @target attribute containing a single target in the form "component-name/service-name" and the reference has a policy requirement attached, and the component with the name "component-name" has a service with the name "service-name" with multiple bindings one of which has the same policy requirement as the reference, that the reference is wired to the service using that binding and is able to invoke it
Artifacts	ASM_6040_TestCase.java Test_ASM_6040.composite TestInvocation.wsdl TestClient_0002.composite TestComposite1.composite
Expected output	Positive test: "ASM_6040 request service1 operation1 invoked"

451

452 **2.5**

453 **2.6 Section 67**

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455

456 **2.7 Section 8**

457 **ASM_8001_TestCase**

458

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"

459

460 **ASM_8002_TestCase**

461

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"

462

463 **ASM_8003_TestCase**

464

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"

465

466 **ASM_8005_TestCase**

467

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"

468

469 **ASM_8006_TestCase**

470

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"

471

472 **ASM_8007_TestCase**

473

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"

474

475 **ASM_8008_TestCase**

476

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"

477

478 **ASM_8009_TestCase**

479

Testcase ID	ASM_8009_TestCase
Test Assertion	ASM-TA-8011
Description	Tests that when an <interface/> element of an <implementation/> <componentType/> <reference/> or <service/> does not declare a callback interface that the <component/> <reference/> or <service/> element of the <component/> using the <implementation/> also does not declare a callback interface Tests that where the <interface/> element of a reference in the componentType of an implementation does not declare a callback interface, then the corresponding reference element of the component using the implementation also does not declare a callback interface in its <interface/> subelement
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"

480

481 **ASM_8010_TestCase**

482

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.wsdl Service5.wsdl Service5Callback.wsdl Service8Callback.wsdl
Expected output	Negative test: "exception"

483

484 **ASM_8011_TestCase**

485

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.wsdl TestClient_0002.composite TestComposite62.composite TestComposite55.composite Service5.wsdl

	Service5Callback.wsdl
Expected output	Negative test: "exception"

486

487 **ASM_8012_TestCase**

488

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"

489

490 **ASM_8013_TestCase**

491

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"

492

493 **ASM_8014_TestCase**

494

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"

495

496 **ASM_8015_TestCase**

497

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"

498

499 **ASM_8016_TestCase**

500

<u>Testcase ID</u>	<u>ASM_8016_TestCase</u>
<u>Test Assertion</u>	<u>ASM-TA-8021</u>
<u>Description</u>	<u>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</u>
<u>Artifacts</u>	<u>ASM_8016_TestCase.java</u> <u>Test_ASM_8016.composite</u> <u>TestInvocation.wsdl</u> <u>TestClient_0002.composite</u> <u>TestComposite54.composite</u> <u>TestComposite55.composite</u> <u>ASM_0002_Client.java</u> <u>Service1.wsdl</u> <u>Service5.wsdl</u> <u>Service5Callback.wsdl</u>
<u>Expected output</u>	<u>Positive test:</u> <u>"ASM_8016 request service1 operation1 invoked service2 operation1 invoked service1 callback1 invoked"</u>
<u>Testcase ID</u>	<u>ASM_8016_TestCase</u>
<u>Test Assertion</u>	<u>ASM-TA-8020</u>
<u>Description</u>	<u>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</u>
<u>Artifacts</u>	<u>ASM_8016_TestCase.java</u> <u>Test_ASM_8016.composite</u> <u>TestInvocation.wsdl</u> <u>TestClient_0002.composite</u> <u>TestComposite54.composite</u> <u>TestComposite55.composite</u> <u>ASM_0002_Client.java</u> <u>Service1.wsdl</u>

	Service5.wsdl Service5Callback.wsdl
Expected output	Positive test: "ASM_8016-request-service1-operation1-invoked-service2-operation1-invoked-service1-callback1-invoked"

501

502 **ASM_8017_TestCase**

503

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 output	Negative test: "exception"

504

505 **ASM_8018_TestCase**

506

Testcase ID	ASM_8018_TestCase
Test Assertion	ASM-TA-8011
Description	Tests that where the <interface/> element of a service in the component-Type of an implementation does not declare a callback interface, then the corresponding service element of the component using the implementation also does not declare a callback interface in its <interface/> subelement
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"

507

508 **ASM_8019_TestCase**

509

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"

510

511 | **2.8 Section 7**

512 | **2.9 Section 9**

513 | **ASM_9001_TestCase**

514

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"

515

516 **ASM_9002_TestCase**

517

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"

518

519 **ASM_9003_TestCase**

520

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"
--	--

521

522 **ASM_9004_TestCase**

523

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"

524

525 **ASM_9005_TestCase**

526

Testcase ID	ASM_9005_TestCase
Test Assertion	ASM-TA-9006
Description	Tests that if a component service has a <binding.sca/> subelement, that the binding.sca element does not declare a @uri attribute
Artifacts	ASM_9005_TestCase.java Test_ASM_9005.composite TestInvocation.wsdl TestClient_0002.composite TestComposite1.composite Service1.wsdl
Expected output	Negative test: "exception"

527

528 | **2.10 Section 8**529 | **2.11 Section 10**530 | **ASM_10001_TestCase**

531

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"

532

533 | **ASM_10002_TestCase**

534

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"

535

536 **ASM_10003_TestCase**

537

<u>Testcase ID</u>	<u>ASM_10003_TestCase</u>
<u>Test Assertion</u>	<u>ASM-TA-10003</u> <u>ASM-TA-13003</u>
<u>Description</u>	<u>Tests that when a <definitions/> file has content that does not conform to the sca-definitions.xsd, it is rejected by the SCA runtime</u>
<u>Artifacts</u>	<u>ASM_10003_TestCase.java</u> <u>Test_ASM_10003.composite</u> <u>TestInvocation.wsdl</u> <u>TestClient_0002.composite</u> <u>TestComposite1.composite</u> <u>Service1.wsdl</u> <u>ASM_10003/META-INF/definitions.xml</u>
<u>Expected output</u>	<u>Negative test:</u> <u>"exception"</u>
<u>Testcase ID</u>	<u>ASM_10003_TestCase</u>
<u>Test Assertion</u>	<u>ASM-TA-10003</u>
<u>Description</u>	<u>Tests that when a <definitions/> file has content that does not conform to the sca-definitions.xsd, it is rejected by the SCA runtime</u>
<u>Artifacts</u>	<u>ASM_10003_TestCase.java</u> <u>Test_ASM_10003.composite</u> <u>TestInvocation.wsdl</u> <u>TestClient_0002.composite</u> <u>TestComposite1.composite</u> <u>Service1.wsdl</u> <u>ASM_10003/META-INF/definitions.xml</u>
<u>Expected output</u>	<u>Negative test:</u> <u>"exception"</u>

538

539 **2.12 Section 102**

540

541 **ASM_12002_TestCase**

542

<u>Testcase ID</u>	<u>ASM_12002_TestCase</u>
<u>Test Assertion</u>	<u>ASM-TA-12005</u> <u>ASM-TA-12002</u>

Description	Tests that where a WSDL document references its schema using @s-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 http://www.oasis-open.org/committees/download.php/32378/Service1a.xsd)
Expected output	Positive test: "ASM_12002 request service1 operation1 invoked"

543

544 **ASM_12003_TestCase**

545

Testcase ID	ASM_12003_TestCase
Test Assertion	ASM-TA-12006 ASM-TA-12012
Description	Tests that where a WSDL document references its schema using @s-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"

546

547 **ASM_12004_TestCase**

548

Testcase ID	ASM_12004_TestCase
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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"

549

550 **ASM_12005_TestCase**

551

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"

552

553 **ASM_12006_TestCase**

554

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"

555

556 **ASM_12007_TestCase**

557

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"

558

559 **ASM_12008_TestCase**

560

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"

561

562 **ASM_12009_TestCase**

563

<u>Testcase ID</u>	<u>ASM_12009_TestCase</u>
<u>Test Assertion</u>	<u>ASM-TA-12029</u>
<u>Description</u>	<u>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</u>
<u>Artifacts</u>	<u>ASM_12009_TestCase.java</u> <u>Test_ASM_12009.composite</u> <u>TestInvocation.wsdl</u> <u>TestClient_0002.composite</u> <u>TestComposite66.composite</u> <u>Service1.wsdl</u> <u>Contribution1</u> <u>ASM_12009/META-IF/sca-contribution.xml</u>
<u>Expected output</u>	<u>Positive test:</u> <u>"ASM_12009 request servicex operation1 invoked"</u>

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"

564

565

566 ASM_12010_TestCase

567

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"

568

569 **ASM_12011_TestCase**

570

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"

571

572 **ASM_12012_TestCase**

573

<u>Testcase ID</u>	<u>ASM_12012_TestCase</u>
<u>Test Assertion</u>	<u>ASM-TA-12032</u> <u>ASM-TA-13002</u>
<u>Description</u>	<u>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</u>
<u>Artifacts</u>	<u>ASM_12012_TestCase.java</u> <u>Test_ASM_12012.composite</u> <u>TestInvocation.wsdl</u> <u>TestClient_0002.composite</u> <u>TestComposite5.composite (version 1 - contribution = General)</u> <u>Service1.wsdl</u> <u>ASM_12012/META-IF/sca-contribution.xml</u>
<u>Expected output</u>	<u>Negative test:</u> <u>"exception"</u>

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"

574

575 ASM_12013_TestCase

576

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"

577

578 | **2.13 Section 11**

579 | **No testcases**

580 | **2.14 Section 12**

581 | **2.15 Section 13**

582 | **ASM_13001_TestCase**

583

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"

584

585 | **ASM_13002_TestCase**

586

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"
--	-------------

587

588 **ASM_13003_TestCase**

589

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"

590

591 **ASM_13004_TestCase**

592

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"

593

594 **ASM_13005_TestCase**

595

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"

596

597 **ASM_13006_TestCase**

598

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"

599

600

601 **ASM_13007_TestCase**

602

Testcase ID	ASM_13007_TestCase
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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"

603

604 **ASM_13008_TestCase**

605

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"

606

607 3 Catalog of Test Artifacts

608

609 3.1 Composite Files - lower level

<u>Name</u>	<u>Valid</u>	<u>Description</u>
<u>Marked "Impl Specific" if it is implementation type specific</u>		<u>Services and References use interface Service1 unless described otherwise</u>
<u>TestComposite1.composite</u> <u>"Impl Specific"</u>	Y	<u>1 service</u> <u>service1Impl</u>
<u>TestComposite2.composite</u> -	N	<u>2 services - with same name</u> <u>0 references</u> <u>service1Impl</u> <u>Contribution: ASM_5005</u>
<u>TestComposite3.composite</u>	N	<u>1 service,</u> <u>2 references - with same name</u> <u>service1Impl2</u> <u>Contribution: ASM_5007</u>
<u>TestComposite4.composite</u> <u>"Impl Specific"</u>	Y	<u>1 service,</u> <u>1 reference (1..1)</u> <u>service1Impl2</u>
<u>TestComposite5.composite</u> <u>"Impl Specific"</u>	Y	<u>1 service - interface = Service2</u> <u>0 references</u> <u>service2Impl</u>
<u>TestComposite6.composite</u> <u>"Impl Specific"</u>	Y	<u>1 service,</u> <u>1 reference (1..n)</u> <u>service1Impl3</u>
<u>TestComposite7.composite</u> <u>"Impl Specific"</u>	Y	<u>1 service,</u> <u>1 reference (0..n)</u> <u>service1Impl4</u>
<u>TestComposite8.composite</u> <u>"Impl Specific"</u>	Y	<u>1 service,</u> <u>1 reference (0..1)</u> <u>service1Impl6</u>
<u>TestComposite9.composite</u>	Y	<u>1 service - superset interface = Service1Superset</u>

<u>"Impl Specific"</u>		0 references service1SupersetImpl
<u>TestComposite10.composite</u>	Y	1 service 1 reference (1..1) with binding and target
<u>TestComposite11.composite</u>	N	1 service, 1 reference 1 component with 1..1 reference that is wired and promoted Contribution: ASM_5023
<u>TestComposite12.composite</u>	Y	1 service 0 references 1 property of complex type typed with @type uses TestComposite71
<u>TestComposite13.composite</u>	Y	1 service 0 references 1 property of complex type typed with @element uses TestComposite71
<u>TestComposite14.composite</u>	Y	1 service 0 references 1 property of simple type (string)
<u>TestComposite15.composite</u>	Y	1 service - with multiple bindings declared 0 references
<u>TestComposite16.composite</u>	N	3 services - 2 with same name Contributions: ASM_4002, ASM_6002
<u>TestComposite17.composite</u>	N	2 services - 1 with invalid @promote value Contribution: ASM_6003
<u>TestComposite18.composite</u>	Y	1 service - service interface is compatible subset of interface of promoted component service
<u>TestComposite19.composite</u>	N	1 service, 2 references - with same name Contributions: ASM_4003, ASM_6005
<u>TestComposite20.composite</u>	N	1 service, 1 reference with invalid @promote value Contribution: ASM_6006
<u>TestComposite21.composite</u>	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) uses TestComposite70
TestComposite23.composite	Y	1 service, 1 reference (1..1) that promotes component reference with (0..1) multiplicity uses TestComposite8
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 Contributions: ASM_4004, ASM_6012
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
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 Contribution: ASM_6016
TestComposite31.composite	N	1 service, composite service has a @promote URI that does not point to a component service within the composite 0 references Contribution: ASM_6021
TestComposite32.composite	N	1 service, contains a component with a 1..n reference that is neither promoted nor wired internally in the composite

		Contribution: ASM_6022
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 Contribution: ASM_6031
TestComposite40.composite	N	1 service, 1 reference where the reference has @requires containing 2 mutually exclusive intents Contribution: ASM_6032
TestComposite41.composite	N	1 service, 1 reference, where the reference multiplicity is 0..1 but the component reference which it promotes has multiplicity 1..1 Contribution: ASM_6033
TestComposite42.composite	Y	1 service, composite has @constrainingType set to a constrainingType to which the composite does conform
TestComposite43.composite	Y	1 service, 1 reference, 2 properties. 1 property declares its type using the @type attribute (complex type sca:Callback)
TestComposite44.composite	Y	1 service, 1 reference, 2 properties. 1 property declares its type using the @element attribute (complex type sca:callback)
TestComposite45.composite	N	1 service, 1 reference,

		<p>2 properties. 1 property declares its type using both an @element attribute and a @type attribute (complex type sca:Callback)</p> <p>Contribution: ASM_4007</p>
TestComposite46.composite	Y	<p>1 service.</p> <p>1 reference.</p> <p>2 properties. 1 property declares @mustSupply=true</p>
TestComposite48.composite	Y	2 services
TestComposite49.composite	Y	<p>1 services</p> <p>2 references, 1 of (0..1), 1 of (0..n)</p>
TestComposite50.composite	Y	1 service, 2 properties with @mustSupply="false"
TestComposite52.composite <i>"Impl Specific"</i>	Y	<p>1 service with Service4 interface</p> <p>service4Impl</p>
TestComposite53.composite <i>"Impl Specific"</i>	Y	<p>1 service</p> <p>1 reference with Service4 interface</p> <p>contains a component which checks whether an input parameter is modified during invocation of an operation on the Service4 interface</p> <p>service1Impl7</p>
TestComposite54.composite <i>"Impl Specific"</i>	Y	<p>1 service</p> <p>1 reference with a callback - Service5 & Service5Callback</p> <p>service1Callback5Impl</p>
TestComposite55.composite <i>"Impl Specific"</i>	Y	<p>1 service with callback - Service5 & Service5Callback</p> <p>service5Impl</p>
TestComposite60.composite <i>"Impl Specific"</i>	Y	<p>(ASM_8006)</p> <p>1 service</p> <p>1 reference with callback - Service9 & Service9Callback</p> <p>service1Callback9Impl</p>
TestComposite61.composite <i>"Impl Specific"</i>	Y	<p>(ASM_8006)</p> <p>1 service with callback - Service9 & Service9Callback</p> <p>service9Impl</p>
TestComposite62.composite	N	<p>(ASM_8003)</p> <p>1 service, 1 reference with callback</p> <p>Callback interface of composite reference is not compatible with callback interface of promoted component reference</p>

		<u>Contribution: ASM_8011</u>
<u>TestComposite63.composite</u>	N	<u>(ASM_8003)</u> <u>1 service with callback - where the callback interface is not compatible with the callback interface on the promoted component service - Service5 & Service8Callback</u> <u>Contribution: ASM_8010</u>
<u>TestComposite64.composite</u>	N	<u>(ASM_8012)</u> <u>1 service</u> <u>1 reference (0..1) with callback - Service1 & Service5Callback - where the promoted component reference has no callback declared</u> <u>Contribution: ASM_8012</u>
<u>TestComposite65.composite</u> <u>"Impl Specific"</u>	Y	<u>(ASM_8003)</u> <u>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</u> <u>service5Impl2</u>
<u>TestComposite66.composite</u> <u>"Impl Specific"</u>	Y	<u>1 service, remotable, service has Confidentiality applied</u> <u>0 references</u> <u>service1Impl</u>
<u>TestComposite67.composite</u>	Y	<u>* copy of TestComposite5 but in namespace http://oasis/tests2</u>
<u>TestComposite68.</u>	Y	<u>Wrapper of TestComposite5 but in namespace http://oasis/tests2</u>
<u>TestComposite69.composite</u>	Y	<u>1 service</u> <u>* wrapper of TestComposite1 in namespace http://oasis/tests2</u>
<u>TestComposite70.composite</u> <u>"Impl Specific"</u>	Y	<u>1 service.</u> <u>1 reference (1..1) - interface Service1Superset</u> <u>service1Impl8</u>
<u>TestComposite71.composite</u> <u>"Impl Specific"</u>	Y	<u>1 service</u> <u>0 references</u> <u>2 properties of type string</u> <u>service1Impl5</u>
<u>TestComposite72.composite</u>	N	<u>1 service</u> <u>1 service with callback - Service1 & Service5Callback - where the promoted component service has no callback declared</u> <u>0 references</u>

		<u>Contribution: ASM_8017</u>
<u>TestComposite73.composite</u> <u>"Impl Specific"</u>	Y	<u>1 service</u> <u>0 references</u> <u>1 property of type float</u>
<u>TestComposite74.composite</u>	N	<u>1 service</u> <u>1 reference "Reference1"</u> <u>- reference promotes a component reference with multiplicity 1..1 and @nonOverridable="true"</u> <u>Contribution ASM_5040</u>
<u>TestComposite75.composite</u>	Y	<u>3 services all with interface = Service1</u> <u>0 references</u> <u>0 properties</u> <u>Contribution: General</u>
<u>TestComposite76.composite</u>	Y	<u>1 service</u> <u>0 references</u> <u>1 property multi-valued of complex type typed with @type uses TestComposite71</u>

610

611 **3.2 Java Interfaces**

612

<u>Name</u>	<u>Description</u>
<u>test.Service1.java</u>	<u>1 operation with 1 input, 1 output parameter</u>
<u>test.Service2.java</u>	<u>Remotable service interface that is not compatible with Service1 interface</u>
<u>test.Service1Superset.java</u>	<u>Remotable service interface which is a superset of Service1 interface</u> <u>2 operations with 1 input, 1 output parameter</u>
<u>test.Service4.java</u>	<u>Remotable service interface</u> <u>1 operation with 1 input, 1 output parameter</u> <u>- input parameter is a Java mutable type = List of Strings</u>
<u>test.Service5.java</u>	<u>Remotable service interface with a Callback interface (Service5Callback)</u> <u>1 operation with 1 input, 1 output parameter</u>
<u>test.Service5Callback.java</u>	<u>Remotable callback interface for Service5,</u>

	<u>1 operation with 1 input, 1 output parameter</u>
<u>test.Service1_Intent</u>	<u>Service1 interface + Confidentiality intent</u> <u>1 operation with 1 input, 1 output parameter</u>
<u>test.Service8Callback</u>	<u>Remotable callback interface incompatible with Service5Callback interface</u>

613

3.3 Java Implementation Classes

614

<u>Name</u>	<u>Description</u>
	<u>Services and references use interface Service1 unless otherwise described</u>
<u>test.Service1Impl.java</u>	<u>1 service</u> <u>0 references</u>
<u>test..Service1Impl2.java</u>	<u>1 service</u> <u>1 reference (1..1)</u>
<u>test.Service1Impl3.java</u>	<u>1 service</u> <u>1 reference (1..n)</u>
<u>test.Service1Impl4.java</u>	<u>1 service</u> <u>1 reference (0..n)</u>
<u>test.Service1Impl5.java</u>	<u>1 service</u> <u>0 references</u> <u>3 properties</u>
<u>test.Service1Impl6.java</u>	<u>1 service</u> <u>1 reference (0..1)</u>
<u>test.Service1impl7.java</u>	<u>1 service</u> <u>1 reference (1..1) with interface Service4</u> <u>- operation1 method calls reference operation and checks for modification of the input parameter</u>
<u>test.Service1Impl8.java</u>	<u>1 service</u> <u>1 reference (1..1) - interface Service1Superset</u>
<u>test.Service1Impl9</u>	<u>1 service</u> <u>0 references</u> <u>1 property of type float</u>
<u>test.Service2Impl.java</u>	<u>1 service with interface Service2</u>

test.Service1SupersetImpl.java	1 service with interface Service1Superset
test.Service4impl.java	1 service with interface Service4 - service operation modifies input parameter
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)

615 **3.4 WSDL Interface Files**

616

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 in-

	<u>valid file</u>
<u>Service2.wsdl</u>	<u>1 service - incompatible with Service1</u> <u>1 operation with 1 input, 1 output parameter</u>
<u>Service4.wsdl</u>	<u>portType = Service4</u> <u>1 operation with 1 input, 1 output parameter</u> <u>- input parameter is list of Strings</u>
<u>Service5.wsdl</u>	<u>Remotable service interface with a single operation with 1 input and 1 output parameter and a Callback interface</u>
<u>Service9.wsdl</u>	<u>Remotable service interface, with @callback attribute applied to the portType element</u> <u>1 operation with 1 input and 1 output parameter</u>
<u>Service5Callback.wsdl</u>	<u>Remotable callback interface for Service5, with a single operation with 1 input and 1 output parameter</u>
<u>Service8Callback.wsdl</u>	<u>Callback interface which is not compatible with other Callback interfaces (uses a different operation name)</u> <u>1 operation with 1 input and 1 output parameter</u>
<u>Service9Callback.wsdl</u>	<u>Callback interface for Service9</u> <u>1 operation with 1 input and 1 output parameter</u>

618 | **4 Conformance**

619 | The artifacts contained in the sca-assembly-1.1-testcases.zip file are considered to be authoritative and
620 | take precedence over the artifacts described in this document.

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

623 | **Appendix A. Test Assertions for the SCA Assembly**
 624 | **Model**

625 | This document defines the Test Assertions for the SCA Assembly Specification Version 1.1 following the
 626 | format defined in the OASIS Test Assertion Guidelines specification [TA-GUIDE].

627 | **A.1. Example Test Assertion**

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

630 |

<u>Assertion ID</u>	<u>ASM-TA-xxxx</u>
<u>Source</u>	<u>[ASMx00yy]</u>
<u>Target</u>	<u><kitchenSink/> element of composite file</u>
<u>Prerequisites</u>	<u>The <kitchenSink/> element has a @drain attribute</u>
<u>Predicate</u>	<u>The @drain attribute value of the <kitchenSink/> element is a URI that identifies a portal into the drainage system of the Domain.</u>
<u>Prescription Level</u>	<u>Mandatory</u>
<u>Tags</u>	<u>kitchenSink drain Domain</u>

631 |

632 | **Assertion ID:** Is a unique ID for the test assertion. Its format starts with a 3 letter string that identifies the
 633 | specification to which it relates - "ASM" is for the SCA Assembly specification. This is followed by "-TA-"
 634 | to indicate that this identifier is for a test assertion. This is then followed by a unique 4 digit number.

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

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

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

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

642 | **Prescription Level:** Mandatory (for MUST requirements) or Preferred (for SHOULD requirements) or
 643 | Permitted (for MAY requirements).

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

646 |

647 | **A.2. Test Assertions for SCA Assembly Specification Section 3**

648 |

Assertion ID	ASM-TA-4002
Source	[ASM40003]
Target	<service/> element of a <componentType/> element
Prerequisites	The <componentType/> element has >1 <service/> elements
Predicate	The @name attribute of the <service/> element is not equal to the @name attribute of any other <service/> element of the <componentType/>
Prescription Level	Mandatory
Tags	"componentType" "service" "name"

649

650

Assertion ID	ASM-TA-4003
Source	[ASM40004]
Target	<reference/> element of a <componentType/> element
Prerequisites	The <componentType/> element has >1 <reference/> elements
Predicate	The @name attribute of the <reference/> element is not equal to the @name attribute of any other <reference/> element of the <componentType/>
Prescription Level	Mandatory
Tags	"componentType" "reference" "name"

651

652

Assertion ID	ASM-TA-4004
Source	[ASM40005]
Target	<property/> element of a <componentType/> element
Prerequisites	The <componentType/> element has >1 <property/> elements
Predicate	The @name attribute of the <property/> element is not equal to the @name attribute of any other <property/> element of the <componentType/>
Prescription Level	Mandatory
Tags	"componentType" "property" "name"

653

654

Assertion ID	ASM-TA-4005
Source	[ASM40006]

<u>Target</u>	<u><reference/> element of a <component/> where the <reference/> has the @target attribute set to valid target <component/> <service/></u>
<u>Prerequisites</u>	<u><reference/> element of the <componentType/> of the <implementation/> used by the <component/> has @wiredByImpl set to "true"</u>
<u>Predicate</u>	<u><reference/> @target is ignored and the reference is not wired to the identified <component/> <service/></u>
<u>Prescription Level</u>	<u>Mandatory</u>
<u>Tags</u>	<u>"componentType" "reference" "wiredByImpl"</u>

655

656

<u>Assertion ID</u>	<u>ASM-TA-4006</u>
<u>Source</u>	<u>[ASM40007]</u>
<u>Target</u>	<u>@type attribute of a <property/> element of a <componentType/> element</u>
<u>Prerequisites</u>	
<u>Predicate</u>	<u>@type attribute value of the <property/> element is the QName of an XML schema type</u>
<u>Prescription Level</u>	<u>Mandatory</u>
<u>Tags</u>	<u>"componentType" "property" "type"</u>

657

658

<u>Assertion ID</u>	<u>ASM-TA-4007</u>
<u>Source</u>	<u>[ASM40008]</u>
<u>Target</u>	<u>@element attribute of a <property/> element of a <componentType/> element</u>
<u>Prerequisites</u>	
<u>Predicate</u>	<u>@element attribute value of the <property/> element is the QName of an XSD global element.</u>
<u>Prescription Level</u>	<u>Mandatory</u>
<u>Tags</u>	<u>"componentType" "property" "element"</u>

659

660

<u>Assertion ID</u>	<u>ASM-TA-4008</u>
<u>Source</u>	<u>[ASM40009]</u>
<u>Target</u>	<u>Implementation property value of an <implementation/> of a <component/></u>

<u>Prerequisites</u>	a) The <property/> element of the <componentType/> element of the implementation has a default value for the property b) <component/> has a corresponding <property/> element that sets a value for the property
<u>Predicate</u>	The runtime value of the implementation property is the value declared by the <component/> <property/> element
<u>Prescription Level</u>	Mandatory
<u>Tags</u>	"component type" "property" "default"

661

662

<u>Assertion ID</u>	ASM-TA-4009
<u>Source</u>	[ASM40010]
<u>Target</u>	<property/> element of <componentType/>
<u>Prerequisites</u>	a) The <property/> element has a @type attribute declared
<u>Predicate</u>	<property/> element does not have an @element attribute declared
<u>Prescription Level</u>	Mandatory
<u>Tags</u>	"component type" "property" "type" "element"

663

664

<u>Assertion ID</u>	ASM-TA-4010
<u>Source</u>	[ASM40010]
<u>Target</u>	<property/> element of <componentType/>
<u>Prerequisites</u>	a) The <property/> element has a @element attribute declared
<u>Predicate</u>	<property/> element does not have an @type attribute declared
<u>Prescription Level</u>	Mandatory
<u>Tags</u>	"component type" "property" "type" "element"

665

666

<u>Assertion ID</u>	ASM-TA-4011
<u>Source</u>	[ASM40011]
<u>Target</u>	<property/> element of a <component/>
<u>Prerequisites</u>	a) <component/> has an <implementation/> which has a componentType with a <property/> element, corresponding to the <component/> <property/> element, which has @mustSupply="true"

<u>Predicate</u>	<u><property/> element declares a property value which sets the property value of the implementation</u>
<u>Prescription Level</u>	<u>Mandatory</u>
<u>Tags</u>	<u>"component type" "property" "mustSupply" "value"</u>

667

668

<u>Assertion ID</u>	<u>ASM-TA-4012</u>
<u>Source</u>	<u>[ASM40012]</u>
<u>Target</u>	<u>@file attribute of a <property/> element of a <componentType/></u>
<u>Prerequisites</u>	
<u>Predicate</u>	<u>@file attribute contains a dereferenceable URI to a file which contains the value for the property</u>
<u>Prescription Level</u>	<u>Mandatory</u>
<u>Tags</u>	<u>"component type" "property" "file" "dereferenceable URI"</u>

669

670 **A.3. Test Assertions for SCA Assembly Specification Section 4**

671

<u>Assertion ID</u>	<u>ASM-TA-5001</u>
<u>Source</u>	<u>[ASM50002]</u>
<u>Target</u>	<u><service/> element of a <component/> element</u>
<u>Prerequisites</u>	<u>The <component/> element has >1 <service/> elements</u>
<u>Predicate</u>	<u>The @name attribute of [the <service/> element] not equal to the @name attribute of any other <service/> element of the <component/></u>
<u>Prescription Level</u>	<u>Mandatory</u>
<u>Tags</u>	<u>"component services"</u>

672

673

<u>Assertion ID</u>	<u>ASM-TA-5002</u>
<u>Source</u>	<u>[ASM50003]</u>
<u>Target</u>	<u><service/> element of a <component/> element</u>
<u>Prerequisites</u>	<u>The <component/> element has an <implementation/> child element</u>
<u>Predicate</u>	<u>The @name attribute of [the <service/> element] is equal to the @name at-</u>

	<u>tribute of one <service/> element of the <componentType/> of the <implementation/> subelement of the <component/></u>
<u>Prescription Level</u>	<u>Mandatory</u>
<u>Tags</u>	<u>"component services"</u>

674

675

<u>Assertion ID</u>	<u>ASM-TA-5003</u>
<u>Source</u>	<u>[ASM50007]</u>
<u>Target</u>	<u><reference/> element of a <component/> element</u>
<u>Prerequisites</u>	<u>The <component/> element has >1 <reference/> elements</u>
<u>Predicate</u>	<u>The @name attribute of [the <reference/> element] not equal to the @name attribute of any other <reference/> element of the <component/></u>
<u>Prescription Level</u>	<u>Mandatory</u>
<u>Tags</u>	<u>"component references"</u>

676

677

<u>Assertion ID</u>	<u>ASM-TA-5004</u>
<u>Source</u>	<u>[ASM50008]</u>
<u>Target</u>	<u><reference/> element of a <component/> element</u>
<u>Prerequisites</u>	<u>The <component/> element has an <implementation/> child element</u>
<u>Predicate</u>	<u>The @name attribute of [the <reference/> element] is equal to the @name attribute of one <reference/> element of the <componentType/> of the <implementation/> subelement of the <component/></u>
<u>Prescription Level</u>	<u>Mandatory</u>
<u>Tags</u>	<u>"component references"</u>

678

679

680

<u>Assertion ID</u>	<u>ASM-TA-5005</u>
<u>Source</u>	<u>[ASM50001]</u>
<u>Target</u>	<u><component/> element in a <composite/> element</u>
<u>Prerequisites</u>	<u>The <composite/> element has >1 <component/> elements</u>
<u>Predicate</u>	<u>The @name attribute of [the <component/> element] not equal to the @name attribute of any other <component/> element in the <composite/></u>

<u>Prescription Level</u>	<u>Mandatory</u>
<u>Tags</u>	<u>"component names"</u>

681

682

<u>Assertion ID</u>	<u>ASM-TA-5006</u>
<u>Source</u>	<u>[ASM50004]</u>
<u>Target</u>	<u><service/> element of a <component/> element</u>
<u>Prerequisites</u>	<u>The <service/> element has an <interface/> child element</u>
<u>Predicate</u>	<u>The interface specified by the <interface/> child element of [the <service/> element] is a compatible subset of the interface declared for the <service/> with the same @name attribute in the <componentType/> of the <implementation/> child of the <component/></u>
<u>Prescription Level</u>	<u>Mandatory</u>
<u>Tags</u>	<u>"compatible interfaces"</u>

683

684

<u>Assertion ID</u>	<u>ASM-TA-5007</u>
<u>Source</u>	<u>[ASM50005]</u>
<u>Target</u>	<u><service/> element of a <component/> element</u>
<u>Prerequisites</u>	<u>The <service/> element has no <binding/> elements AND <service/> element (with same @name attribute value) of the <componentType/> of the <implementation/> element of the <component/> has 1 or more <binding/> elements</u>
<u>Predicate</u>	<u>The <service/> is made available using all the bindings declared on the <componentType/> <service/> element</u>
<u>Prescription Level</u>	<u>Mandatory</u>
<u>Tags</u>	<u>"service bindings"</u>

685

686

<u>Assertion ID</u>	<u>ASM-TA-5008</u>
<u>Source</u>	<u>[ASM50005]</u>
<u>Target</u>	<u><service/> element of a <component/> element</u>
<u>Prerequisites</u>	<u>The <service/> element has no <binding/> elements AND <service/> element (with same @name attribute value) of the <componentType/> of the <implementation/> element of the <component/> has</u>

	<u>no <binding/> elements</u>
<u>Predicate</u>	<u>The <service/> is made available using binding.sca</u>
<u>Prescription Level</u>	<u>Mandatory</u>
<u>Tags</u>	<u>"service bindings"</u>

687

688

<u>Assertion ID</u>	<u>ASM-TA-5009</u>
<u>Source</u>	<u>[ASM50005]</u>
<u>Target</u>	<u><service/> element of a <component/> element</u>
<u>Prerequisites</u>	<u>The <service/> element has 1 or more <binding/> elements</u>
<u>Predicate</u>	<u>The <service/> is made available using all of the bindings declared on its <binding/> elements</u>
<u>Prescription Level</u>	<u>Mandatory</u>
<u>Tags</u>	<u>"service bindings"</u>

689

690

<u>Assertion ID</u>	<u>ASM-TA-5010</u>
<u>Source</u>	<u>[ASM50009]</u>
<u>Target</u>	<u><reference/> element of a <component/> element</u>
<u>Prerequisites</u>	<u><reference/> element (with same @name attribute value) of the <componentType/> of the <implementation/> has multiplicity 1..n</u>
<u>Predicate</u>	<u><reference/> element @multiplicity attribute is 1..n or 1..1</u>
<u>Prescription Level</u>	<u>Mandatory</u>
<u>Tags</u>	<u>"component references" "reference multiplicity"</u>

691

692

<u>Assertion ID</u>	<u>ASM-TA-5011</u>
<u>Source</u>	<u>[ASM50009]</u>
<u>Target</u>	<u><reference/> element of a <component/> element</u>
<u>Prerequisites</u>	<u><reference/> element (with same @name attribute value) of the <componentType/> of the <implementation/> has multiplicity 0..n</u>
<u>Predicate</u>	<u><reference/> element @multiplicity attribute is 0..n or 1..n or 0..1 or 1..1</u>
<u>Prescription Level</u>	<u>Mandatory</u>

Level	
Tags	"component references" "reference multiplicity"

693

Assertion ID	ASM-TA-5012
Source	[ASM50009]
Target	<reference/> element of a <component/> element
Prerequisites	<reference/> element (with same @name attribute value) of the <componentType/> of the <implementation/> has multiplicity 1..1
Predicate	<reference/> element @multiplicity attribute is 1..1
Prescription Level	Mandatory
Tags	"component references" "reference multiplicity"

694

695

Assertion ID	ASM-TA-5013
Source	[ASM50009]
Target	<reference/> element of a <component/> element
Prerequisites	<reference/> element (with same @name attribute value) of the <componentType/> of the <implementation/> has multiplicity 0..1
Predicate	<reference/> element @multiplicity attribute is 0..1 or 1..1
Prescription Level	Mandatory
Tags	"component references" "reference multiplicity"

696

697

Assertion ID	ASM-TA-5014
Source	[ASM50010] [ASM50013]
Target	<reference/> element of a <component/> element
Prerequisites	<reference/> element has @wiredByImpl="true"
Predicate	<reference/> element has no @target attribute set
Prescription Level	Mandatory
Tags	"component references" "wiredByImpl"

698

699

Assertion ID	ASM-TA-5015
Source	[ASM50010]
Target	<reference/> element of a <component/> element
Prerequisites	<reference/> element has @wiredByImpl="true"
Predicate	<reference/> element has no <binding/> child elements
Prescription Level	Mandatory
Tags	"component references" "wiredByImpl"

700

701

Assertion ID	ASM-TA-5016
Source	[ASM50011]
Target	<interface/> element of a <reference/> element of a <component/> element
Prerequisites	
Predicate	The interface declared by the <interface/> element of <reference/> element is a compatible superset of interface declared by the <interface/> child element of <reference/> element (with same @name attribute value) of the <componentType/> of the <implementation/> child element of the <component/> element
Prescription Level	Mandatory
Tags	"component references" "interface compatibility"

702

703

Assertion ID	ASM-TA-5017
Source	[ASM50012]
Target	<reference/> element of a <component/> element
Prerequisites	a) <reference/> has no <binding/> child elements b) <reference/> (with the same @name attribute) of the <componentType/> of the <implementation/> element of the <component/> has a <binding/> child element
Predicate	Binding declared by the <reference/> element (with the same @name attribute) of the <componentType/> is used for the reference
Prescription Level	Mandatory
Tags	"component references" "reference bindings"

704

705

<u>Assertion ID</u>	<u>ASM-TA-5018</u>
<u>Source</u>	<u>[ASM50012]</u>
<u>Target</u>	<u><reference/> element of a <component/> element</u>
<u>Prerequisites</u>	<u>a) <reference/> has one <binding/> child element which identifies a target service</u> <u>b) <reference/> (with the same @name attribute) of the <componentType/> of the <implementation/> element of the <component/> has a <binding/> child element</u>
<u>Predicate</u>	<u>Binding (and target service) identified by the <binding/> element of the <reference/> is used to wire the reference.</u>
<u>Prescription Level</u>	<u>Mandatory</u>
<u>Tags</u>	<u>"component references" "reference bindings"</u>

706

707

<u>Assertion ID</u>	<u>ASM-TA-5019</u>
<u>Source</u>	<u>[ASM50013]</u>
<u>Target</u>	<u><reference/> element of a <component/> element</u>
<u>Prerequisites</u>	<u><reference/> element has @wiredByImpl="true"</u>
<u>Predicate</u>	<u><reference/> element has no <binding/> child elements</u>
<u>Prescription Level</u>	<u>Mandatory</u>
<u>Tags</u>	<u>"component references" "wiredByImpl"</u>

708

709

<u>Assertion ID</u>	<u>ASM-TA-5020</u>
<u>Source</u>	<u>[ASM50013]</u>
<u>Target</u>	
<u>Prerequisites</u>	<u><reference/> element has @wiredByImpl="true"</u>
<u>Predicate</u>	<u>No <wire/> elements have the <reference/> element declared as the @source for the wire</u>
<u>Prescription Level</u>	<u>Mandatory</u>
<u>Tags</u>	<u>"component references" "wiredByImpl"</u>

710

711

Assertion ID	ASM-TA-5021
Source	[ASM50014]
Target	<reference/> element of a <component/> element
Prerequisites	a) <reference/> element has @autowire="true" b) There are multiple valid target services for the reference which satisfy the autowire process. c) <reference/> element has @target identifying a single target service
Predicate	The <reference/> element is wired only to the single target service identified by the @target attribute
Prescription Level	Mandatory
Tags	"component references" "autowire"

712

713

Assertion ID	ASM-TA-5022
Source	[ASM50014]
Target	<reference/> element of a <component/> element
Prerequisites	a) <reference/> element has @autowire="true" b) There are multiple valid target services for the reference which satisfy the autowire process. c) There is a <wire/> element which has the <reference/> element declared in its @source attribute
Predicate	The <reference/> element is wired only to the single target service identified by the <wire/> element
Prescription Level	Mandatory
Tags	"component references" "autowire"

714

715

Assertion ID	ASM-TA-5023
Source	[ASM50014]
Target	<reference/> element of a <component/> element
Prerequisites	a) <reference/> element has @autowire="true" b) There are multiple valid target services for the reference which satisfy the autowire process. c) <reference/> element has a <binding/> child element which declares a single target service

<u>Predicate</u>	The <reference/> element is wired only to the single target service identified by the <binding/> element
<u>Prescription Level</u>	Mandatory
<u>Tags</u>	"component references" "autowire"

716

717

<u>Assertion ID</u>	ASM-TA-5024
<u>Source</u>	[ASM50015]
<u>Target</u>	<binding/> element of a <reference/> element of a <component/> element
<u>Prerequisites</u>	<binding/> element has its @uri attribute specifying a target service
<u>Predicate</u>	The <reference/> is wired to the target service specified by the @uri attribute
<u>Prescription Level</u>	Mandatory
<u>Tags</u>	"component references" "uri"

718

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<u>Assertion ID</u>	ASM-TA-5025
<u>Source</u>	[ASM50040]
<u>Target</u>	<reference/> element of a <component/> element
<u>Prerequisites</u>	a) @multiplicity is 1..1 b) @target attribute contains a single target service which is a service on a second component in the same <composite/> as the first components c) target service is compatible with the source reference
<u>Predicate</u>	The wire from the <reference/> to the target service is valid and the client component can invoke operations on the target service
<u>Prescription Level</u>	Mandatory
<u>Tags</u>	"component references" "valid wire"

720

721

<u>Assertion ID</u>	ASM-TA-5026
<u>Source</u>	[ASM50041]
<u>Target</u>	<reference/> element of a <component/> element
<u>Prerequisites</u>	a) @multiplicity is 1..n

	<p>b) <u>multiple target services exist in the <composite/> containing the <component/> which are compatible with the reference.</u></p> <p>c) <u>@target attribute contains 2 or more compatible target services.</u></p>
<u>Predicate</u>	<u>The <reference/> is wired to all of the target services identified by its @target attribute and can invoke operations on each target service.</u>
<u>Prescription Level</u>	<u>Mandatory</u>
<u>Tags</u>	<u>"component references" "valid wire"</u>

722

723

<u>Assertion ID</u>	<u>ASM-TA-5027</u>
<u>Source</u>	<u>[ASM50040]</u> <u>[ASM50022]</u>
<u>Target</u>	<u><reference/> element of a <component/> element</u>
<u>Prerequisites</u>	<p>a) <u>@multiplicity is 1..1</u></p> <p>b) <u>multiple target services exist in the <composite/> containing the <component/> which are compatible with the <reference/>.</u></p> <p>c) <u>@target attribute contains 2 or more compatible target services.</u></p>
<u>Predicate</u>	<u>The wires from the <reference/> to the target service are invalid and the client component cannot run</u>
<u>Prescription Level</u>	<u>Mandatory</u>
<u>Tags</u>	<u>"component references" "valid wire"</u>

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725

<u>Assertion ID</u>	<u>ASM-TA-5028</u>
<u>Source</u>	<u>[ASM50039]</u>
<u>Target</u>	<u><reference/> element with @multiplicity=0..1 of a <component/> element</u>
<u>Prerequisites</u>	<u><reference/> element is not wired, either by the @target attribute of the <reference/> or by any <binding/> child elements of the <reference/></u>
<u>Predicate</u>	<u>The configuration of the <component/> is valid and the component executes</u>
<u>Prescription Level</u>	<u>Mandatory</u>
<u>Tags</u>	<u>"component references" "valid wire"</u>

726

727

Assertion ID	ASM-TA-5029
Source	[ASM50025]
Target	<reference/> element with @multiplicity=1..1 of a <component/> element within a <composite/>
Prerequisites	a) <reference/> element is wired to a compatible service of a second component within the same composite b) a <reference/> element of the <composite/> promotes the <reference/> element of the component c) the <composite/> is used as the implementation of a high level component and the composite <reference/> is wired to a valid target
Predicate	The wires from the <reference/> to the target service are invalid and the client component cannot run
Prescription Level	Mandatory
Tags	"component references" "valid wire"

728

729

Assertion ID	ASM-TA-5030
Source	[ASM50026]
Target	<reference/> element with @target attribute set to one or more target services of a <component/> element within a <composite/>
Prerequisites	
Predicate	<reference/> element has no <binding/> child elements
Prescription Level	Mandatory
Tags	"component" "reference" "target" "binding"

730

731

Assertion ID	ASM-TA-5031
Source	[ASM50027]
Target	<property/> element of a <component/> element within a <composite/>, with an @value attribute declared
Prerequisites	type of the <property/> element is an XML Schema simple type
Predicate	@value attribute of the <property/> element contains a single value with a type matching that of the <property/> element
Prescription Level	Mandatory
Tags	"component" "property" "value"

732

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<u>Assertion ID</u>	<u>ASM-TA-5032</u>
<u>Source</u>	<u>[ASM50028]</u>
<u>Target</u>	<u><value/> child element of a <property/> element of a <component/> element within a <composite/></u>
<u>Prerequisites</u>	<u>Type of the <property/> element is an XML Schema simple type or an XML Schema complex type</u>
<u>Predicate</u>	<u>The type of the <value/> element is the same as the type declared for the parent <property/> element</u>
<u>Prescription Level</u>	<u>Mandatory</u>
<u>Tags</u>	<u>"component" "property" "type"</u>

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<u>Assertion ID</u>	<u>ASM-TA-5033</u>
<u>Source</u>	<u>[ASM50029]</u>
<u>Target</u>	<u>child element of a <property/> element of a <component/> element within a <composite/></u>
<u>Prerequisites</u>	<u>Child element is not an <sca:value/> element</u>
<u>Predicate</u>	<u>The type of the <property/> element is an XML Schema global element and the child element is an instance of that global element</u>
<u>Prescription Level</u>	<u>Mandatory</u>
<u>Tags</u>	<u>"component" "property" "value" "type"</u>

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<u>Assertion ID</u>	<u>ASM-TA-5034</u>
<u>Source</u>	<u>[ASM50031]</u>
<u>Target</u>	<u><property/> element of a <component/> element within a <composite/></u>
<u>Prerequisites</u>	<u><component/> element contains 1 or more additional <property/> elements</u>
<u>Predicate</u>	<u>The @name attribute of the <property/> element is not the same as the @name attribute of any of the other <property/> child elements of the same <component/></u>
<u>Prescription Level</u>	<u>Mandatory</u>
<u>Tags</u>	<u>"component" "property" "name"</u>

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Assertion ID	ASM-TA-5036
Source	[ASM50032]
Target	<property/> element of a <component/> element within a <composite/>, with values specified by <value/> child elements
Prerequisites	<property/> element with @many=false, or where componentType of the implementation has the matching <property/> with @many=false
Predicate	<property/> has a single <value/> child element
Prescription Level	Mandatory
Tags	"component" "property" "value" "many"

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Assertion ID	ASM-TA-5037
Source	[ASM50033]
Target	<property/> element of a <component/> element within a <composite/>, with a value specified by a @value attribute
Prerequisites	
Predicate	<property/> has no <value/> child elements
Prescription Level	Mandatory
Tags	"component" "property" "value"

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Assertion ID	ASM-TA-5038
Source	[ASM50034]
Target	<reference/> element of a <component/> element within a <composite/>
Prerequisites	<p>a) <composite/> contains at least 2 distinct valid target services for the <reference/></p> <p>b) <composite/> contains a <wire/> element with @source set to the <reference/> of the <component/> and @target set to one valid target service for the <reference/> ("serviceA")</p> <p>c) <wire/> element has @replace=true</p> <p>d) <reference/> has @target attribute containing a single entry declaring a different target service ("serviceB")</p>
Predicate	<reference/> is wired to serviceA and is not wired to serviceB

<u>Prescription Level</u>	<u>Mandatory</u>
<u>Tags</u>	<u>"component" "reference" "wire" "replace" "target"</u>

745

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<u>Assertion ID</u>	<u>ASM-TA-5039</u>
<u>Source</u>	<u>[ASM50035]</u>
<u>Target</u>	<u><property/> element of <component/></u>
<u>Prerequisites</u>	<u>a) The <property/> element has a @type attribute declared</u>
<u>Predicate</u>	<u><property/> element does not have an @element attribute declared</u>
<u>Prescription Level</u>	<u>Mandatory</u>
<u>Tags</u>	<u>"component" "property" "type" "element"</u>

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<u>Assertion ID</u>	<u>ASM-TA-5040</u>
<u>Source</u>	<u>[ASM50035]</u>
<u>Target</u>	<u><property/> element of <component/></u>
<u>Prerequisites</u>	<u>a) The <property/> element has a @element attribute declared</u>
<u>Predicate</u>	<u><property/> element does not have an @type attribute declared</u>
<u>Prescription Level</u>	<u>Mandatory</u>
<u>Tags</u>	<u>"component" "property" "type" "element"</u>

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<u>Assertion ID</u>	<u>ASM-TA-5041</u>
<u>Source</u>	<u>[ASM50036]</u> <u>[ASM50038]</u>
<u>Target</u>	<u><property/> element of <component/></u>
<u>Prerequisites</u>	<u><property/> element declares a type</u>
<u>Predicate</u>	<u>The type declared for the <property/> element is the same as the type declared for the corresponding <property/> in the <componentType/> of the <implementation/></u>
<u>Prescription Level</u>	<u>Mandatory</u>
<u>Tags</u>	<u>"component" "property" "type" "component type"</u>

751

752

Assertion ID	ASM-TA-5042
Source	[ASM50037]
Target	@name attribute of a <property/> element of <component/>
Prerequisites	<component/> has an <implementation/>
Predicate	@name attribute matches the @name attribute of one of the <property/> elements of the <componentType/> of the <implementation/>
Prescription Level	Mandatory
Tags	"component" "property" "name" "componentType"

753

754

Assertion ID	ASM-TA-5043
Source	[ASM50006]
Target	<callback/> subelement of a <service/> subelement of a <component/>
Prerequisites	<callback/> element has set of one or more <binding/> subelements
Predicate	For a given callback target, one of the set of <binding/> subelements is used for the callback operations.
Prescription Level	Mandatory
Tags	"component" "service" "callback" "binding"

755

756

Assertion ID	ASM-TA-5045
Source	[ASM50038]
Target	<property/> element of a <component/>
Prerequisites	a) property element declares a type b) property element has a @source attribute which gets the value for the property from a <composite/> <property/> element c) @source attribute value does not involve a subelement of the composite property
Predicate	The type of the <property/> element is compatible with the type of the composite property element
Prescription Level	Mandatory
Tags	"component" "property" "type" "source" "compatible"

757

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<u>Assertion ID</u>	<u>ASM-TA-5046</u>
<u>Source</u>	<u>[ASM50038]</u>
<u>Target</u>	<u><property/> element of a composite used as an implementation by a component</u>
<u>Prerequisites</u>	<u>a) property element declares a type</u> <u>b) component using the composite as an implementation has a <property/> element which also declares a type</u>
<u>Predicate</u>	<u>The type of the composite <property/> element is compatible with the type of the component property element</u>
<u>Prescription Level</u>	<u>Mandatory</u>
<u>Tags</u>	<u>"composite" "implementation" "property" "type" "compatible"</u>

759

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<u>Assertion ID</u>	<u>ASM-TA-5047</u>
<u>Source</u>	<u>[ASM50042]</u>
<u>Target</u>	<u><reference/> of a component</u>
<u>Prerequisites</u>	<u>a) multiplicity either 0..1 or 1..1</u> <u>b) reference/@nonOverridable="true"</u>
<u>Predicate</u>	<u><reference/> is not promoted by a composite reference</u>
<u>Prescription Level</u>	<u>Mandatory</u>
<u>Tags</u>	<u>"component" "reference" "nonOverridable" "promote"</u>

761

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<u>Assertion ID</u>	<u>ASM-TA-5048</u>
<u>Source</u>	<u>[ASM50043]</u>
<u>Target</u>	<u><reference/> of a component</u>
<u>Prerequisites</u>	<u>a) reference does not declare @autowire attribute</u> <u>b) component containing the reference declares an @autowire="true" attribute</u> <u>c) reference is not wired by its @target attribute, is not wired by a binding element and is not promoted by any composite reference</u> <u>d) composite containing the component contains one target service compatible with the reference</u>

<u>Predicate</u>	<u><reference/> is wired to the target service and can invoke the service</u>
<u>Prescription Level</u>	<u>Mandatory</u>
<u>Tags</u>	<u>"component" "reference" "autowire" "inherit"</u>

763

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<u>Assertion ID</u>	<u>ASM-TA-5049</u>
<u>Source</u>	<u>[ASM50043]</u>
<u>Target</u>	<u><reference/> of a component</u>
<u>Prerequisites</u>	<u>a) reference does not declare @autowire attribute</u> <u>b) component containing the reference does not declare an @autowire attribute</u> <u>c) composite containing the component does declare an @autowire="true" attribute</u> <u>d) reference is not wired by its @target attribute, is not wired by a binding element and is not promoted by any composite reference</u> <u>e) composite containing the component contains one target service compatible with the reference</u>
<u>Predicate</u>	<u><reference/> is wired to the target service and can invoke the service</u>
<u>Prescription Level</u>	<u>Mandatory</u>
<u>Tags</u>	<u>"component" "reference" "autowire" "inherit" "composite"</u>

765

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<u>Assertion ID</u>	<u>ASM-TA-5050</u>
<u>Source</u>	<u>[ASM50044]</u>
<u>Target</u>	<u><property/> element of a component</u>
<u>Prerequisites</u>	<u>a) property has @many="true"</u> <u>b) property has multiple values set</u>
<u>Predicate</u>	<u><property/> element contains all the multiple values set for that property</u>
<u>Prescription Level</u>	<u>Mandatory</u>
<u>Tags</u>	<u>"component" "property" "many" "multiple" "values"</u>

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<u>Assertion ID</u>	<u>ASM-TA-5051</u>
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Source	[ASM50045]
Target	@file attribute of a <property/> element of a <component/>
Prerequisites	
Predicate	@file attribute contains a dereferenceable URI to a file which contains the value for the property
Prescription Level	Mandatory
Tags	"component" "property" "file" "dereferenceable URI"

769

770

Assertion ID	ASM-TA-5052
Source	[ASM50046]
Target	file which is referenced by the @file attribute of a component <property/> element
Prerequisites	property has a type that is a simple XML type property is single valued
Predicate	file contains an <sca:values/> element with one <sca:value/> subelement containing a string with the value for the property
Prescription Level	Mandatory
Tags	"component" "property" "file" "value" "values" "simple"

771

772

Assertion ID	ASM-TA-5053
Source	[ASM50046]
Target	file which is referenced by the @file attribute of a component <property/> element
Prerequisites	property has a type that is a complex XML type property is multi valued
Predicate	file contains an <sca:values/> element with one or more <sca:value/> subelements OR one or more global elements where the type of the <value/> elements OR the global elements matches the type of the <property/> element
Prescription Level	Mandatory
Tags	"component" "property" "file" "value" "values" "complex"

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774 | **A.4. Test Assertions for SCA Assembly Specification Section 5**

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<u>Assertion ID</u>	ASM-TA-6001
<u>Source</u>	"Compatible Interfaces" section of specification
<u>Target</u>	2 interfaces defined by <interface.xxx/> elements (in any location in SCDL files) – called InterfaceA and InterfaceB
<u>Prerequisites</u>	<ol style="list-style-type: none"> 1) (InterfaceA is remotable AND InterfaceB is remotable) OR (InterfaceA is local AND InterfaceB is local) 2) The number of operations and each of their names is the same in InterfaceA and InterfaceB 3) Each operation in InterfaceA has the same parameter types, same parameter order, same return value type and same set of fault/exception types as the operation with the same name in InterfaceB 4) Other specified SCA attributes of InterfaceA match the specified SCA attributes of InterfaceB
<u>Predicate</u>	InterfaceA is compatible with InterfaceB
<u>Prescription Level</u>	Mandatory
<u>Tags</u>	"interface" "compatible"

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<u>Assertion ID</u>	ASM-TA-6002
<u>Source</u>	"Compatible Superset" section of specification
<u>Target</u>	2 interfaces defined by <interface.xxx/> elements (in any location in SCDL files) – called InterfaceA and InterfaceB
<u>Prerequisites</u>	<ol style="list-style-type: none"> 1) (InterfaceA is remotable AND InterfaceB is remotable) OR (InterfaceA is local AND InterfaceB is local) 2) All of the operations in Interface A are present in InterfaceB 3) Each operation in InterfaceA has the same parameter types, same parameter order, same return value type and same set of fault/exception types as the operation with the same name in InterfaceB 4) Other specified SCA attributes of InterfaceA match the specified SCA attributes of InterfaceB
<u>Predicate</u>	InterfaceB is compatible superset of InterfaceA
<u>Prescription Level</u>	Mandatory
<u>Tags</u>	"interface" "compatible"

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<u>Assertion ID</u>	<u>ASM-TA-6003</u>
<u>Source</u>	<u>"Compatible Subset" section of specification</u>
<u>Target</u>	<u>2 interfaces defined by <interface.xxx/> elements (in any location in SCDL files) – called InterfaceA and InterfaceB</u>
<u>Prerequisites</u>	<u>1) (InterfaceA is remotable AND InterfaceB is remotable) OR (InterfaceA is local AND InterfaceB is local)</u> <u>2) All of the operations in InterfaceB are present in InterfaceA</u> <u>3) Each operation in InterfaceB has the same parameter types, same parameter order, same return value type and same set of fault/exception types as the operation with the same name in InterfaceA</u> <u>4) Other specified SCA attributes of InterfaceA match the specified SCA attributes of InterfaceB</u>
<u>Predicate</u>	<u>InterfaceB is compatible subset of InterfaceA</u>
<u>Prescription Level</u>	<u>Mandatory</u>
<u>Tags</u>	<u>"interface" "compatible"</u>

781

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<u>Assertion ID</u>	<u>ASM-TA-6004</u>
<u>Source</u>	<u>[ASM60001]</u>
<u>Target</u>	<u>@name attribute of a <composite/> element</u>
<u>Prerequisites</u>	<u>Multiple <composite/> elements exist in the same namespace</u>
<u>Predicate</u>	<u>@name attribute is not the same as the @name attribute of any other <composite/> element in the same namespace</u>
<u>Prescription Level</u>	<u>Mandatory</u>
<u>Tags</u>	<u>"composite" "name"</u>

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<u>Assertion ID</u>	<u>ASM-TA-6005</u>
<u>Source</u>	<u>[ASM60002]</u>
<u>Target</u>	<u><component/> child elements of a <composite/> element with @local="true"</u>

<u>Prerequisites</u>	<u><composite/> element has multiple <component/> child elements that can run in separate operating system processes</u>
<u>Predicate</u>	<u>All the components run in the same operating system process</u>
<u>Prescription Level</u>	<u>Mandatory</u>
<u>Tags</u>	<u>"composite" "component" "local"</u>

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<u>Assertion ID</u>	<u>ASM-TA-6006</u>
<u>Source</u>	<u>[ASM60003]</u>
<u>Target</u>	<u>@name attribute of a <service/> element of a <composite/> element</u>
<u>Prerequisites</u>	<u><composite/> has multiple <service/> child elements</u>
<u>Predicate</u>	<u>@name attribute of <service/> element is unique across all the <service/> child elements of the <composite/></u>
<u>Prescription Level</u>	<u>Mandatory</u>
<u>Tags</u>	<u>"composite" "service" "name"</u>

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<u>Assertion ID</u>	<u>ASM-TA-6007</u>
<u>Source</u>	<u>[ASM60004]</u>
<u>Target</u>	<u>@promote attribute of <service/> element of a <composite/> element</u>
<u>Prerequisites</u>	<u><composite/> contains a child <component/> offering a <service/></u>
<u>Predicate</u>	<u>@promote attribute has a value which identifies a service of one of the <component/> elements in the <composite/></u>
<u>Prescription Level</u>	<u>Mandatory</u>
<u>Tags</u>	<u>"composite" "service" "promote"</u>

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<u>Assertion ID</u>	<u>ASM-TA-6008</u>
<u>Source</u>	<u>[ASM60005]</u>
<u>Target</u>	<u><interface/> child element of a <service/> element of a <composite/></u>
<u>Prerequisites</u>	<u><service/> element promotes a service of a <component/> in the <composite/></u>

<u>Predicate</u>	<u><interface/> declares an interface which is a compatible subset of the interface declared by the promoted <component/> <service/>, as defined in ASM-TA-6003</u>
<u>Prescription Level</u>	<u>Mandatory</u>
<u>Tags</u>	<u>“composite” “service” “promote” “interface”</u>

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<u>Assertion ID</u>	<u>ASM-TA-6009</u>
<u>Source</u>	<u>[ASM60006]</u>
<u>Target</u>	<u>@name attribute of a <reference/> element of a <composite/> element</u>
<u>Prerequisites</u>	<u><composite/> has multiple <reference/> child elements</u>
<u>Predicate</u>	<u>@name attribute of <reference/> element is unique across all the <reference/> child elements of the <composite/></u>
<u>Prescription Level</u>	<u>Mandatory</u>
<u>Tags</u>	<u>“composite” “reference” “name”</u>

795

796

<u>Assertion ID</u>	<u>ASM-TA-6010</u>
<u>Source</u>	<u>[ASM60007]</u>
<u>Target</u>	<u>@promote attribute of <reference/> element of a <composite/> element</u>
<u>Prerequisites</u>	<u><composite/> contains one or more child <component/> elements with a <reference/></u>
<u>Predicate</u>	<u>@promote attribute has a value which contains one or more URIs each of which identifies a reference of one of the <component/> elements in the <composite/></u>
<u>Prescription Level</u>	<u>Mandatory</u>
<u>Tags</u>	<u>“composite” “reference” “promote”</u>

797

798

<u>Assertion ID</u>	<u>ASM-TA-6011</u>
<u>Source</u>	<u>[ASM60008]</u> <u>[ASM60012]</u>
<u>Target</u>	<u><interface/> child element of a <reference/> element of a <composite/></u>

<u>Prerequisites</u>	<u><composite/> contains one or more child <component/> offering a <reference/></u>
<u>Predicate</u>	<u><interface/> element declares an interface which is a compatible superset of the interface declared by each of the promoted <component/> <reference/>, as defined in ASM-TA-6002</u>
<u>Prescription Level</u>	<u>Mandatory</u>
<u>Tags</u>	<u>“composite” “reference” “promote” “interface”</u>

799

<u>Assertion ID</u>	<u>ASM-TA-6012</u>
<u>Source</u>	<u>[ASM60008]</u> <u>[ASM60013]</u>
<u>Target</u>	<u><reference/> element of a <composite/></u>
<u>Prerequisites</u>	<u>1) <composite contains multiple <component/> child elements which have one or more <reference/> child element</u> <u>2) <reference/> promotes multiple <component/> <reference/> elements</u> <u>3) <reference/> element has no <interface/> child element</u>
<u>Predicate</u>	<u>The interfaces declared by each promoted <component/> <reference/> are the same interface</u>
<u>Prescription Level</u>	<u>Mandatory</u>
<u>Tags</u>	<u>“composite” “reference” “promote” “interface”</u>

800

801

<u>Assertion ID</u>	<u>ASM-TA-6013</u>
<u>Source</u>	<u>[ASM60009]</u>
<u>Target</u>	<u><reference/> element of a <composite/></u>
<u>Prerequisites</u>	<u>1) <reference/> has @intent attribute declaring one or more intents</u> <u>2) <reference/> promotes a <component/> <reference/> element which has one or more intents declared on it</u>
<u>Predicate</u>	<u>Intents declared on the <reference/> are not mutually exclusive with the intents declared on the promoted <component/> <reference/></u>
<u>Prescription Level</u>	<u>Mandatory</u>
<u>Tags</u>	<u>“composite” “reference” “intents” “mutually exclusive”</u>

802

803

<u>Assertion ID</u>	<u>ASM-TA-6014</u>
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Source	[ASM60010]
Target	@requires attribute of <reference/> element of a <composite/>
Prerequisites	1) @requires declares two or more intents
Predicate	The set of intents declared by the @requires attribute do not contain a pair that are mutually exclusive.
Prescription Level	Mandatory
Tags	"composite" "reference" "intents" "mutually exclusive"

804

805

Assertion ID	ASM-TA-6015
Source	[ASM60011]
Target	@multiplicity attribute of <reference/> element of a <composite/>
Prerequisites	<reference/> promotes a <component/> <reference/> with multiplicity 0..1
Predicate	@multiplicity has a value of 0..1 or a value of 1..1
Prescription Level	Mandatory
Tags	"composite" "reference" "multiplicity"

806

807

Assertion ID	ASM-TA-6016
Source	[ASM60011]
Target	@multiplicity attribute of <reference/> element of a <composite/>
Prerequisites	<reference/> promotes a <component/> <reference/> with multiplicity 1..1
Predicate	@multiplicity has a value of 1..1
Prescription Level	Mandatory
Tags	"composite" "reference" "multiplicity"

808

809

Assertion ID	ASM-TA-6017
Source	[ASM60011]
Target	@multiplicity attribute of <reference/> element of a <composite/>
Prerequisites	<reference/> promotes a <component/> <reference/> with multiplicity 0..n

<u>Predicate</u>	<u>@multiplicity has a value of 0..1 or a value of 1..1 or a value of 0..n or a value of 1..n</u>
<u>Prescription Level</u>	<u>Mandatory</u>
<u>Tags</u>	<u>“composite” “reference” “multiplicity”</u>

810

811

<u>Assertion ID</u>	<u>ASM-TA-6018</u>
<u>Source</u>	<u>[ASM60011]</u>
<u>Target</u>	<u>@multiplicity attribute of <reference/> element of a <composite/></u>
<u>Prerequisites</u>	<u><reference/> promotes a <component/> <reference/> with multiplicity 1..n</u>
<u>Predicate</u>	<u>@multiplicity has a value of 1..1 or a value of 1..n</u>
<u>Prescription Level</u>	<u>Mandatory</u>
<u>Tags</u>	<u>“composite” “reference” “multiplicity”</u>

812

813

<u>Assertion ID</u>	<u>ASM-TA-6019</u>
<u>Source</u>	<u>[ASM60014]</u>
<u>Target</u>	<u>@name attribute of <property/> element of a <composite/></u>
<u>Prerequisites</u>	<u><composite/> contains multiple <property/> elements</u>
<u>Predicate</u>	<u>@name attribute value is unique amongst the @name attributes of the <property/> elements of the <composite/></u>
<u>Prescription Level</u>	<u>Mandatory</u>
<u>Tags</u>	<u>“composite” “property” “name”</u>

814

815

<u>Assertion ID</u>	<u>ASM-TA-6020</u>
<u>Source</u>	<u>[ASM60022]</u>
<u>Target</u>	<u><reference/> with @autowire=true of a <component> within a <composite/></u>
<u>Prerequisites</u>	<u><composite/> contains 1 <component/> <service/> that has an interface that is the same as the interface of the <reference/></u>
<u>Predicate</u>	<u><reference/> is wired to the <component/> <service/> and can invoke operations on it</u>
<u>Prescription</u>	<u>Mandatory</u>

<u>Level</u>	
<u>Tags</u>	<u>“component” “reference” “autowire”</u>

816

817

818

<u>Assertion ID</u>	<u>ASM-TA-6021</u>
<u>Source</u>	<u>[ASM60022]</u>
<u>Target</u>	<u><reference/> with @autowire=true of a <component> within a <composite/></u>
<u>Prerequisites</u>	<u><composite/> contains 1 <component/> <service/> that has an interface that is a compatible superset of the interface on the <reference/></u>
<u>Predicate</u>	<u><reference/> is wired to the component <service/> and can invoke operations on it</u>
<u>Prescription Level</u>	<u>Mandatory</u>
<u>Tags</u>	<u>“component” “reference” “autowire” “compatible interface”</u>

819

820

<u>Assertion ID</u>	<u>ASM-TA-6022</u>
<u>Source</u>	<u>[ASM60024]</u>
<u>Target</u>	<u><reference/> with @autowire=true and with intents attached using @required, of a <component> within a <composite/></u>
<u>Prerequisites</u>	<u><composite/> contains 1 <component/> <service/> that is the same as the interface of the <reference/> and which has the same intents attached to it as are attached to the <reference/></u>
<u>Predicate</u>	<u><reference/> is wired to the <component/> <service/> and can invoke operations on it</u>
<u>Prescription Level</u>	<u>Mandatory</u>
<u>Tags</u>	<u>“component” “reference” “autowire” “intents”</u>

821

822 **4.1 Section 14**

<u>Assertion ID</u>	<u>ASM-TA-6023</u>
<u>Source</u>	<u>[ASM60024]</u>
<u>Target</u>	<u><reference/> with @autowire=true and with intents attached using @required, of a <component> within a <composite/></u>
<u>Prerequisites</u>	<u><composite/> contains 1 <component/> <service/> that is the same as the interface of the <reference/> and which does not have the same intents at-</u>

	<u>atched to it as are attached to the <reference/></u>
<u>Predicate</u>	<u><reference/> is not wired to the <component/> <service/> and cannot invoke operations on it</u>
<u>Prescription Level</u>	<u>Mandatory</u>
<u>Tags</u>	<u>"component" "reference" "autowire" "intents"</u>

823

824

<u>Assertion ID</u>	<u>ASM-TA-6024</u>
<u>Source</u>	<u>[ASM60025]</u>
<u>Target</u>	<u><reference/> with @autowire=true and @multiplicity 0..1 of a <component> within a <composite/></u>
<u>Prerequisites</u>	<u><composite/> contains 2 or more <component/> <service/> that are compatible with the <reference/></u>
<u>Predicate</u>	<u><reference/> is wired to one <component/> <service/> and can invoke operations on it</u>
<u>Prescription Level</u>	<u>Mandatory</u>
<u>Tags</u>	<u>"component" "reference" "autowire" "intents"</u>

825

826

<u>Assertion ID</u>	<u>ASM-TA-6025</u>
<u>Source</u>	<u>[ASM60026]</u>
<u>Target</u>	<u><reference/> with @autowire=true and @multiplicity=0..n of a <component> within a <composite/></u>
<u>Prerequisites</u>	<u><composite/> contains 2 or more <component/> <service/> that are compatible with the <reference/></u>
<u>Predicate</u>	<u><reference/> is wired to all of the compatible <component> <service/> and can invoke operations on each of them</u>
<u>Prescription Level</u>	<u>Mandatory</u>
<u>Tags</u>	<u>"component" "reference" "autowire" "intents"</u>

827

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<u>Assertion ID</u>	<u>ASM-TA-6026</u>
<u>Source</u>	<u>[ASM60027]</u>
<u>Target</u>	<u><reference/> with @autowire=true and @multiplicity=0..n or 0..1 of a</u>

	<u><component> within a <composite/></u>
<u>Prerequisites</u>	<u><composite/> contains 0 <component/> <service/> that are compatible with the <reference/></u>
<u>Predicate</u>	<u><reference/> is not wired but the <component/> runs and can have services invoked on it</u>
<u>Prescription Level</u>	<u>Mandatory</u>
<u>Tags</u>	<u>"component" "reference" "autowire" "unwired"</u>

830

831

<u>Assertion ID</u>	<u>ASM-TA-6027</u>
<u>Source</u>	<u>[ASM60028]</u>
<u>Target</u>	<u><reference/> with @autowire=true and @multiplicity=1..1 or 1..n of a <component> within a <composite/></u>
<u>Prerequisites</u>	<u><composite/> contains 0 <component/> <service/> that are compatible with the <reference/></u>
<u>Predicate</u>	<u><reference/> is in error (unwired) and an error is reported by the runtime if an attempt is made to invoke service operations on the <component/></u>
<u>Prescription Level</u>	<u>Mandatory</u>
<u>Tags</u>	<u>"component" "reference" "autowire" "unwired"</u>

832

833

<u>Assertion ID</u>	<u>ASM-TA-6028</u>
<u>Source</u>	<u>[ASM60032]</u>
<u>Target</u>	<u>@promote attribute of <service/> of a <composite/> which is used as the <implementation/> of a higher level <component/></u>
<u>Prerequisites</u>	<u><composite/> contains contains at least 1 <component/> offering a <service> with an interface compatible with the interface of the <composite/> <service/></u>
<u>Predicate</u>	<u>@promote attribute contains the URI of the <component/> <service/></u>
<u>Prescription Level</u>	<u>Mandatory</u>
<u>Tags</u>	<u>"composite" "service" "promote" "implementation"</u>

834

835

<u>Assertion ID</u>	<u>ASM-TA-6029</u>
<u>Source</u>	<u>[ASM60033]</u>

<u>Target</u>	<u><reference/> with @multiplicity=1..1 or 1..n of a <component> of a <composite/> which is used as the <implementation/> of a higher level <component/></u>
<u>Prerequisites</u>	
<u>Predicate</u>	<u><reference/> is wired to a service within the <composite/> or is promoted by a <composite/> <reference/></u>
<u>Prescription Level</u>	<u>Mandatory</u>
<u>Tags</u>	<u>"component" "reference" "wire" "promote" "implementation"</u>

836

837

<u>Assertion ID</u>	<u>ASM-TA-6030</u>
<u>Source</u>	<u>[ASM60034]</u>
<u>Target</u>	<u><property/> of a <component/> in a <composite/> used as the <implementation/> of a higher level <component/></u>
<u>Prerequisites</u>	<u><property/> is marked as @mustSupply=true in the componentType of the implementation of the lower level <component/></u>
<u>Predicate</u>	<u><property/> is given a value either through the @source attribute (from a <composite/> <property/>) or through a value in the <property/> configuration</u>
<u>Prescription Level</u>	<u>Mandatory</u>
<u>Tags</u>	<u>"component" "property" "value" "source"</u>

838

839

<u>Assertion ID</u>	<u>ASM-TA-6031</u>
<u>Source</u>	<u>[ASM60030]</u>
<u>Target</u>	<u>@name attribute of <implementation.composite/> element</u>
<u>Prerequisites</u>	
<u>Predicate</u>	<u>@name attribute contains the QName of a <composite/> in the Domain</u>
<u>Prescription Level</u>	<u>Mandatory</u>
<u>Tags</u>	<u>"implementation.composite" "name" "composite"</u>

840

841

<u>Assertion ID</u>	<u>ASM-TA-6032</u>
<u>Source</u>	<u>[ASM60031]</u>
<u>Target</u>	<u>SCA runtime</u>

<u>Prerequisites</u>	a) <u><composite/> contains an <include/> element referencing a second <composite</u> b) <u>including the second composite into the first one creates an invalid <composite/> configuration (eg two <component/> elements have the same @name value)</u>
<u>Predicate</u>	<u>SCA runtime reports an error</u>
<u>Prescription Level</u>	<u>Mandatory</u>
<u>Tags</u>	<u>"component" "property" "value" "source"</u>

842

843

<u>Assertion ID</u>	<u>ASM-TA-6033</u>
<u>Source</u>	<u>[ASM60035]</u>
<u>Target</u>	<u><reference/> of <composite></u>
<u>Prerequisites</u>	a) <u><reference/> promotes 2 or more <component> <reference>s</u> b) <u>one promoted <component/> <reference/> has @wiredByImpl set</u>
<u>Predicate</u>	<u>all the <component/> <reference/> elements promoted by the <reference/> have the same value for their @wiredByImpl attribute</u>
<u>Prescription Level</u>	<u>Mandatory</u>
<u>Tags</u>	<u>"composite" "reference" "promote" "wiredByImpl"</u>

844

<u>Assertion ID</u>	<u>ASM-TA-6034</u>
<u>Source</u>	<u>[ASM60036]</u>
<u>Target</u>	<u>@wiredByImpl attribute of <reference/> of <composite/></u>
<u>Prerequisites</u>	a) <u><reference/> promotes one or more <component/> <reference/></u>
<u>Predicate</u>	<u>@wiredByImpl attribute value is the same as the @wiredByImpl value of the promoted <component/> <reference/>s</u>
<u>Prescription Level</u>	<u>Mandatory</u>
<u>Tags</u>	<u>"component" "reference" "promote" "wiredByImpl"</u>

845

<u>Assertion ID</u>	<u>ASM-TA-6035</u>
<u>Source</u>	<u>[ASM60037]</u>
<u>Target</u>	<u>@promote attribute of a <reference/> of <composite/></u>
<u>Prerequisites</u>	a) <u><composite/> contains an <include/> element referencing a second</u>

	<u><composite/></u> <u>b) @promote attribute contains a URI pointing to a <component/> <reference/> which is contained in the second <composite/></u>
<u>Predicate</u>	<u>The <reference/> promotes the <component/> <reference/> contained in the second <composite/></u>
<u>Prescription Level</u>	<u>Mandatory</u>
<u>Tags</u>	<u>"component" "reference" "promote" "include"</u>

846

<u>Assertion ID</u>	<u>ASM-TA-6036</u>
<u>Source</u>	<u>[ASM60038]</u>
<u>Target</u>	<u>@promote attribute of a <service/> of <composite/></u>
<u>Prerequisites</u>	<u>a) <composite/> contains an <include/> element referencing a second <composite/></u> <u>b) @promote attribute contains a URI pointing to a <component/> <service/> which is contained in the second <composite/></u>
<u>Predicate</u>	<u>The <service/> promotes the <component/> <service/> contained in the second <composite/></u>
<u>Prescription Level</u>	<u>Mandatory</u>
<u>Tags</u>	<u>"component" "service" "promote" "include"</u>

847

<u>Assertion ID</u>	<u>ASM-TA-6037</u>
<u>Source</u>	<u>[ASM60039]</u>
<u>Target</u>	<u><wire/> element of <composite/></u>
<u>Prerequisites</u>	<u>a) <composite/> contains an <include/> element referencing a second <composite/></u> <u>b) @source attribute of <wire/> contains a URI pointing to a <component/> <reference/> which is contained in the second <composite/></u> <u>c) @target attribute of <wire/> contains a URI pointing to a <component/> <service/> which is contained in the second <composite/></u>
<u>Predicate</u>	<u>The <wire/> successfully wires the <component> <reference/> to the <component/> <service/> and the reference is able to invoke an operation of the service.</u>
<u>Prescription Level</u>	<u>Mandatory</u>
<u>Tags</u>	<u>"composite" "wire" "include"</u>

848

849

Assertion ID	ASM-TA-6038
Source	[ASM60040]
Target	<property/> element of <composite/>
Prerequisites	a) The <property/> element has a @type attribute declared
Predicate	<property/> element does not have an @element attribute declared
Prescription Level	Mandatory
Tags	"composite" "property" "type" "element"

850

851

Assertion ID	ASM-TA-6039
Source	[ASM60040]
Target	<property/> element of <composite/>
Prerequisites	a) The <property/> element has a @element attribute declared
Predicate	<property/> element does not have an @type attribute declared
Prescription Level	Mandatory
Tags	"composite" "property" "type" "element"

852

853

Assertion ID	ASM-TA-6040
Source	[ASM60041]
Target	<composite/> containing an <include/> element which references a second <composite/>
Prerequisites	second <composite/> has @local="true"
Predicate	<composite/> has @local="true"
Prescription Level	Mandatory
Tags	"composite" "local" "include"

854

Assertion ID	ASM-TA-6041
Source	[ASM60042]
Target	@name attribute of <include/> element of <composite/>
Prerequisites	
Predicate	@name attribute value is the QName of a second <composite/> in the SCA

	<u>Domain</u>
<u>Prescription Level</u>	<u>Mandatory</u>
<u>Tags</u>	<u>"composite" "include" "name"</u>

855

856

<u>Assertion ID</u>	<u>ASM-TA-6042</u>
<u>Source</u>	<u>[ASM60043]</u>
<u>Target</u>	<u>interface of a service which is the target of a <wire/> element within a composite</u>
<u>Prerequisites</u>	<u>a) wire @source attribute declares a component reference in the composite</u> <u>b) wire @target attribute declares a component service in the composite</u> <u>c) both the component service and the component reference exist</u>
<u>Predicate</u>	<u>the interface of the service is a compatible superset of the interface of the reference</u>
<u>Prescription Level</u>	<u>Mandatory</u>
<u>Tags</u>	<u>"wire" "target" "source" "interface" "compatible superset"</u>

857

858

<u>Assertion ID</u>	<u>ASM-TA-6043</u>
<u>Source</u>	<u>[ASM60045]</u>
<u>Target</u>	<u>composite used as the implementation of a component</u>
<u>Prerequisites</u>	
<u>Predicate</u>	<u>componentType of the composite is determined according to the rules in the SCA Assembly specification section "Component Type of a Composite used as a Component Implementation"</u>
<u>Prescription Level</u>	<u>Mandatory</u>
<u>Tags</u>	<u>"composite" "implementation" "componentType"</u>

859

860

<u>Assertion ID</u>	<u>ASM-TA-6044</u>
<u>Source</u>	<u>[ASM60046]</u>
<u>Target</u>	<u>Wire declared by the @target attribute of a <reference/> of a component</u>
<u>Prerequisites</u>	<u>a) @target attribute declares a single target using the form "compon-</u>

	<p><u>ent-name/service-name"</u></p> <p><u>b) the component named in the @target attribute offers multiple services, each of which is compatible with the reference</u></p> <p><u>c) One of the services of the component named in the @target attribute has the name "service-name"</u></p>
<u>Predicate</u>	<u>The wire target is the service with the name "service-name" of the component with the name "component-name" and the reference is able to invoke this service.</u>
<u>Prescription Level</u>	<u>Mandatory</u>
<u>Tags</u>	<u>"wire" "target" "service-name" "component-name"</u>

861

862

<u>Assertion ID</u>	<u>ASM-TA-6045</u>
<u>Source</u>	<u>[ASM60047]</u>
<u>Target</u>	<u>Wire declared by the @target attribute of a <reference/> of a component</u>
<u>Prerequisites</u>	<p><u>a) @target attribute declares a single target using the form "component-name/service-name"</u></p> <p><u>b) the component named in the @target attribute does not have a service with the name "service-name"</u></p> <p><u>c) the component named in the @target attribute has at least one service which is compatible with the reference</u></p>
<u>Predicate</u>	<u>The wire is not valid and the SCA runtime raises an error.</u>
<u>Prescription Level</u>	<u>Mandatory</u>
<u>Tags</u>	<u>"wire" "target" "service-name" "component-name" "error"</u>

863

864

<u>Assertion ID</u>	<u>ASM-TA-6046</u>
<u>Source</u>	<u>[ASM60048]</u>
<u>Target</u>	<u>Wire declared by the @target attribute of a <reference/> of a component</u>
<u>Prerequisites</u>	<u>a) @target attribute declares a single target using the form "component-name"</u>
<u>Predicate</u>	<u>component identified by the @target attribute has a single service and this service is compatible with the reference and the reference can invoke this service</u>
<u>Prescription Level</u>	<u>Mandatory</u>
<u>Tags</u>	<u>"wire" "target" "component-name" "single"</u>

865

866

<u>Assertion ID</u>	<u>ASM-TA-6047</u>
<u>Source</u>	<u>[ASM60049]</u>
<u>Target</u>	<u>Wire declared by the @target attribute of a <reference/> of a component</u>
<u>Prerequisites</u>	<u>a) @target attribute declares a single target using the form "component-name/service-name/binding-name"</u> <u>b) the component named in the @target attribute offers a service with the name "service-name"</u> <u>c) the service named "service-name" has multiple bindings, one of which has the name "binding-name"</u>
<u>Predicate</u>	<u>The wire target is the service with the name "service-name" of the component with the name "component-name", and the wire uses the binding with the name "binding-name" and the reference is able to invoke the service.</u>
<u>Prescription Level</u>	<u>Mandatory</u>
<u>Tags</u>	<u>"wire" "target" "component-name" "service-name" "binding-name"</u>

867

868

<u>Assertion ID</u>	<u>ASM-TA-6048</u>
<u>Source</u>	<u>[ASM60050]</u>
<u>Target</u>	<u>Wire declared by the @target attribute of a <reference/> of a component</u>
<u>Prerequisites</u>	<u>a) @target attribute declares a single target using the form "component-name/service-name/binding-name"</u> <u>b) the component named in the @target attribute offers a service with the name "service-name"</u> <u>c) the service named "service-name" does not have a binding with the name "binding-name"</u>
<u>Predicate</u>	<u>The wire is not valid and the SCA runtime raises an error.</u>
<u>Prescription Level</u>	<u>Mandatory</u>
<u>Tags</u>	<u>"wire" "target" "component-name" "service-name" "binding-name"</u>

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870

<u>Assertion ID</u>	<u>ASM-TA-6049</u>
<u>Source</u>	<u>[ASM60051]</u>
<u>Target</u>	<u>Wire declared by the @target attribute of a <reference/> of a component</u>
<u>Prerequisites</u>	<u>a) @target attribute declares a single target using the form "compon-</u>

	<p><u>ent-name/service-name"</u></p> <p><u>b) the reference has some policy requirements</u></p> <p><u>c) the component named in the @target attribute offers a service with the name "service-name"</u></p> <p><u>d) the service named "service-name" has multiple <binding/> subelements, one of which is compatible with the policy requirements of the reference</u></p>
<u>Predicate</u>	<u>The wire is valid and uses the binding which is compatible with the policy requirements of the reference</u>
<u>Prescription Level</u>	<u>Mandatory</u>
<u>Tags</u>	<u>"wire" "target" "component-name" "service-name" "bindings"</u>

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872 | **A.5. Test Assertions for SCA Assembly Specification Section 6**

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<u>Assertion ID</u>	<u>ASM-TA-8001</u>
<u>Source</u>	<u>[ASM80002]</u>
<u>Target</u>	<u><interface.xxx/> element</u>
<u>Prerequisites</u>	<p><u>a) The interface referred to by the <interface.xxx/> element is marked removable using the language appropriate mechanism.</u></p> <p><u>b) The interface referred to by the <interface.xxx/> element has >1 operation.</u></p>
<u>Predicate</u>	<u>The name of an operation of the interface is not equal to the name of any other operation of the interface.</u>
<u>Prescription Level</u>	<u>Mandatory</u>
<u>Tags</u>	<u>"removable" "interface.xxx" "Language dependent"</u>

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875 |

<u>Assertion ID</u>	<u>ASM-TA-8002</u>
<u>Source</u>	<u>[ASM80003]</u>
<u>Target</u>	<u><interface.xxx/> element</u>
<u>Prerequisites</u>	<p><u>a) The interface referred to by the <interface.xxx/> element is marked removable using the language appropriate mechanism.</u></p> <p><u>b) The interface referred to by the <interface/> element has an operation with input parameters.</u></p>
<u>Predicate</u>	<u>The value of the input parameters of the operation of the interface referred to by the <interface/> element are the same after the operation completes.</u>

	as they were before the operation invocation as observable by the client invoking the operation.
<u>Prescription Level</u>	Mandatory
<u>Tags</u>	"remotable" "interface.xxx"

876

877

<u>Assertion ID</u>	ASM-TA-8003
<u>Source</u>	[ASM80003]
<u>Target</u>	<interface.xxx/> element
<u>Prerequisites</u>	a) The interface referred to by the <interface.xxx/> element is marked remotable using the language appropriate mechanism. b) The interface referred to by the <interface/> element has an operation with output parameters.
<u>Predicate</u>	The value of the output parameters of the operation of the interface referred to by the <interface/> element remain constant after the operation invocation has completed, as observable by the service implementation.
<u>Prescription Level</u>	Mandatory
<u>Tags</u>	"remotable"

878

879

<u>Assertion ID</u>	ASM-TA-8004
<u>Source</u>	[ASM80004]
<u>Target</u>	<interface.xxx/> element of a <reference/> element
<u>Prerequisites</u>	The interface referred to by the <interface.xxx/> element is marked bidirectional using the language appropriate mechanism.
<u>Predicate</u>	The invoked service provider can invoke an operation of the callback interface on the client component.
<u>Prescription Level</u>	Mandatory
<u>Tags</u>	"bidirectional" "component reference"

880

881

<u>Assertion ID</u>	ASM-TA-8005
<u>Source</u>	[ASM80005]
<u>Target</u>	<interface.xxx/> element
<u>Prerequisites</u>	a) The interface referred to by the <interface.xxx/> element is marked bid-

	irectional using the language appropriate mechanism. b) The forward interface referred to by the <interface.xxx/> element is marked remotable using the language appropriate mechanism.
<u>Predicate</u>	The callback interface referred to by the <interface.xxx/> element is marked remotable using the language appropriate mechanism.
<u>Prescription Level</u>	Mandatory
<u>Tags</u>	"bidirectional" "remotable" "Language dependent"

882

883

<u>Assertion ID</u>	ASM-TA-8006
<u>Source</u>	[ASM80005]
<u>Target</u>	<interface.xxx/> element
<u>Prerequisites</u>	a) The interface referred to by the <interface.xxx/> element is marked bidirectional using the language appropriate mechanism. b) The forward interface referred to by the <interface.xxx/> element is marked local using the language appropriate mechanism.
<u>Predicate</u>	The callback interface referred to by the <interface.xxx/> element is marked local using the language appropriate mechanism.
<u>Prescription Level</u>	Mandatory
<u>Tags</u>	"bidirectional" "local" "Language dependent"

884

885

<u>Assertion ID</u>	ASM-TA-8007
<u>Source</u>	[ASM80010]
<u>Target</u>	<interface.xxx/> element
<u>Prerequisites</u>	The interface document referred to by the <interface.xxx/> element defines a callback interface using the language appropriate mechanism.
<u>Predicate</u>	The invoked service provider can invoke an operation of the callback interface on the client component.
<u>Prescription Level</u>	Mandatory
<u>Tags</u>	"bidirectional" "component reference"

886

887

<u>Assertion ID</u>	ASM-TA-8008
<u>Source</u>	[ASM80011]

<u>Target</u>	<u><interface.xxx/> element</u>
<u>Prerequisites</u>	<p>a) <u>The interface document referred to by the <interface.xxx/> element defines a callback interface using the language appropriate mechanism.</u></p> <p>b) <u>The <interface.xxx/> elements declares a callback interface directly.</u></p>
<u>Predicate</u>	<u>The callback interface in the interface document is compatible with the callback interface in the <interface.xxx/> element, as defined by ASM-TA-6001</u>
<u>Prescription Level</u>	<u>Mandatory</u>
<u>Tags</u>	<u>"bidirectional"</u>

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<u>Assertion ID</u>	<u>ASM-TA-8009</u>
<u>Source</u>	<u>[ASM50004]</u>
<u>Target</u>	<u><interface.xxx/> element of a <service/> element of a <component/> element</u>
<u>Prerequisites</u>	<u>The interface of the corresponding <service/> element of the <component-Type/> for the <implementation/> of the <component/> declares a callback interface.</u>
<u>Predicate</u>	<u>The <interface.xxx/> element declares a callback interface compatible with the callback interface declared on the corresponding <service/> in the componentType, as asserted by ASM-TA-6001</u>
<u>Prescription Level</u>	<u>Mandatory</u>
<u>Tags</u>	<u>"bidirectional" "component services"</u>

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<u>Assertion ID</u>	<u>ASM-TA-8010</u>
<u>Source</u>	<u>[ASM50011]</u>
<u>Target</u>	<u><interface.xxx/> element of a <reference/> element of a <component/> element</u>
<u>Prerequisites</u>	<u>The interface of the corresponding <reference/> element of the <component-Type/> for the <implementation/> of the <component/> declares a callback interface.</u>
<u>Predicate</u>	<u>The <interface.xxx/> element declares a callback interface compatible with the callback interface declared on the corresponding <reference/> in the componentType, as asserted by ASM-TA-6001</u>
<u>Prescription Level</u>	<u>Mandatory</u>
<u>Tags</u>	<u>"bidirectional" "component references"</u>

892

893

<u>Assertion ID</u>	ASM-TA-8011
<u>Source</u>	[ASM50004] [ASM50011]
<u>Target</u>	<u><interface.xxx/>element of a <service/> or <reference/> element of a <component/> element</u>
<u>Prerequisites</u>	The interface of the corresponding <u><service/> or <reference/> element of the <componentType/> element for the <implementation.xxx/> element of the <component/> element does not define a callback interface using the language appropriate mechanism.</u>
<u>Predicate</u>	The <u><interface.xxx/> element of the <service/> or <reference/> element of the <component/> element does not defines a callback interface.</u>
<u>Prescription Level</u>	Mandatory
<u>Tags</u>	"bidirectional" "component services" component references"

894

895

<u>Assertion ID</u>	ASM-TA-8012
<u>Source</u>	[ASM60005]
<u>Target</u>	<u><interface.xxx/> element of a <service/> element of a <composite/> element</u>
<u>Prerequisites</u>	The interface of the promoted component <u><service/> element defines a callback interface.</u>
<u>Predicate</u>	The <u><interface.xxx/> element declares a callback interface compatible with the callback interface declared on the promoted component <service/> element, as asserted by ASM-TA-6001</u>
<u>Prescription Level</u>	Mandatory
<u>Tags</u>	"bidirectional" "composite services" "promote"

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897

<u>Assertion ID</u>	ASM-TA-8013
<u>Source</u>	[ASM60012]
<u>Target</u>	<u><interface.xxx/> element of a <reference/> element of a <composite/> element</u>
<u>Prerequisites</u>	The interface of the promoted component <u><reference/> element defines a callback interface.</u>
<u>Predicate</u>	The <u><interface.xxx/> element declares a callback interface compatible with the callback interface declared on the promoted component <reference/></u>

	element, as asserted by ASM-TA-6001
Prescription Level	Mandatory
Tags	"bidirectional" "composite references" "promote"

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899

Assertion ID	ASM-TA-8014
Source	[ASM60005] [ASM60012]
Target	<interface.xxx/> element of a <service/> or <reference/> element of a <composite/> element
Prerequisites	The corresponding promoted component <service/> or <reference/> does not define a callback interface.
Predicate	The <interface.xxx/> element does not defines a callback interface.
Prescription Level	Mandatory
Tags	"bidirectional" "composite services" "composite references" "promote"

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901

Assertion ID	ASM-TA-8015
Source	[ASM80009]
Target	<implementation/> of a <component/> which has a <service/> with an <interface/> which has a callback interface
Prerequisites	One forward operation invocation has been made from a service client component to the service
Predicate	The implementation can invoke an arbitrary number of operations of the callback interface on the client component an arbitrary number (including zero) of times.
Prescription Level	Mandatory
Tags	"bidirectional"

902

903

Assertion ID	ASM-TA-8018
Source	[ASM80008]
Target	<service/> or <reference/> element
Prerequisites	The interface of a <service/> or <reference/> element has required intents.

<u>Predicate</u>	The required intents of the interface apply to the <service/> or <reference/> element using the interface.
<u>Prescription Level</u>	Mandatory
<u>Tags</u>	"intents" "component services" "component references" "composite services" "composite references"

904

905

<u>Assertion ID</u>	ASM-TA-8020
<u>Source</u>	[ASM80001]
<u>Target</u>	@interface attribute of a <interface.wsdl> element
<u>Prerequisites</u>	
<u>Predicate</u>	The @interface attribute references a WSDL 1.1 <portType/>
<u>Prescription Level</u>	Mandatory
<u>Tags</u>	"interface.wsdl" "portType"

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<u>Assertion ID</u>	ASM-TA-8021
<u>Source</u>	[ASM80016]
<u>Target</u>	@callbackInterface of a <interface.wsdl> element
<u>Prerequisites</u>	
<u>Predicate</u>	The @callbackInterface attribute references a WSDL 1.1 <portType/> element
<u>Prescription Level</u>	Mandatory
<u>Tags</u>	"interface.wsdl" "portType"

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<u>Assertion ID</u>	ASM-TA-8022
<u>Source</u>	[ASM80017]
<u>Target</u>	<interface.wsdl/> element
<u>Prerequisites</u>	
<u>Predicate</u>	<interface.wsdl/> element does not contain @remotable="false"
<u>Prescription Level</u>	Mandatory

Tags	"interface.wsdll"portType"
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911 **A.6. Test Assertions for SCA Assembly Specification Section 7**

912

Assertion ID	ASM-TA-9002
Source	[ASM90001]
Target	The @uri attribute of a <binding /> element of a <reference/> element
Prerequisites	The @uri attribute has a non-default value
Predicate	1) The @uri attribute is the componentName/serviceName of a wire to an endpoint within the SCA Domain. OR 2) The @uri attribute is the address of an endpoint to an accessible service inside or outside the SCA Domain, using the addressing scheme determined by the binding type
Prescription Level	Mandatory
Tags	"binding" "reference" "uri"

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914

Assertion ID	ASM-TA-9003
Source	[ASM90002]
Target	@name attribute of a <binding /> element in a <service/> or <reference/> element
Prerequisites	The <service/> or <reference/> element has more than one <binding /> element
Predicate	The value of the @name attribute for a <binding /> element must be unique within all the <binding /> elements for each <service/> or <reference/> element
Prescription Level	Mandatory
Tags	"binding" "service" "reference" "name"

915

916

Assertion ID	ASM-TA-9004
Source	[ASM90003]
Target	<binding /> element of a <reference/> element
Prerequisites	<binding/> element does not specify an endpoint using binding specific

	<u>mechanisms</u>
<u>Predicate</u>	<u><reference/> element has a @uri attribute which resolves to a valid service endpoint</u>
<u>Prescription Level</u>	<u>Mandatory</u>
<u>Tags</u>	<u>"binding" reference "uri"</u>

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<u>Assertion ID</u>	<u>ASM-TA-9005</u>
<u>Source</u>	<u>[ASM90004]</u>
<u>Target</u>	<u><reference/> element of a <component/></u>
<u>Prerequisites</u>	<u><reference/> element is wired to a target <component/> <service/> in the SCA domain</u> <u>target <service/> has multiple <binding/> subelements, each with an @name attribute declared</u> <u>wire between reference and service uses a specific binding</u>
<u>Predicate</u>	<u><reference/> element has a @target attribute which has the form "componentName/serviceName/bindingName"</u>
<u>Prescription Level</u>	<u>Mandatory</u>
<u>Tags</u>	<u>"binding" reference "target"</u>

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<u>Assertion ID</u>	<u>ASM-TA-9006</u>
<u>Source</u>	<u>[ASM90005]</u>
<u>Target</u>	<u><binding.sca/> subelement of the service of a component</u>
<u>Prerequisites</u>	
<u>Predicate</u>	<u>The <binding.sca/> element has no @uri attribute declared</u>
<u>Prescription Level</u>	<u>Mandatory</u>
<u>Tags</u>	<u>"binding.sca" "@uri"</u>

921

922 **A.7. Test Assertions for SCA Assembly Specification Section 8**

923

<u>Assertion ID</u>	<u>ASM-TA-10001</u>
<u>Source</u>	<u>[ASM10001]</u>

<u>Target</u>	<u>QName of <intent/>, <policySet/>, <binding/>, <bindingType/> or <implementationType/> subelement of a <definitions/> element</u>
<u>Prerequisites</u>	
<u>Predicate</u>	<u>QName is unique amongst all subelements of all <definitions/> elements in the SCA Domain</u>
<u>Prescription Level</u>	<u>Mandatory</u>
<u>Tags</u>	<u>“QName” “Domain” “definitions”</u>

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925

<u>Assertion ID</u>	<u>ASM-TA-10002</u>
<u>Source</u>	<u>[ASM100002]</u>
<u>Target</u>	<u><intent/>, <policySet/>, <binding/>, <bindingType/> or <implementationType/> subelement of a <definitions/> element in the SCA Domain</u>
<u>Prerequisites</u>	
<u>Predicate</u>	<u>Element is accessible for reference by any artifact in the SCA Domain</u>
<u>Prescription Level</u>	<u>Mandatory</u>
<u>Tags</u>	<u>“Domain” “SCA” “definitions”</u>

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<u>Assertion ID</u>	<u>ASM-TA-10003</u>
<u>Source</u>	<u>[ASM100003]</u>
<u>Target</u>	<u>definitions.xml file</u>
<u>Prerequisites</u>	<u>Contents of definitions.xml file do not conform to the sca-definitional.xsd schema</u>
<u>Predicate</u>	<u>The SCA runtime rejects the definitions.xml file and raises an error</u>
<u>Prescription Level</u>	<u>Mandatory</u>
<u>Tags</u>	<u>“Domain” “SCA” “definitions.xml” “sca-definitional.xsd” “schema”</u>

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929 **A.8. Test Assertions for SCA Assembly Specification Section 9**

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931

<u>Assertion ID</u>	<u>ASM-TA-11001</u>
<u>Source</u>	<u>[ASM11001]</u>

<u>Target</u>	<u>an implementation type</u>
<u>Prerequisites</u>	
<u>Predicate</u>	<u>Meets the requirements for an implementation type defined in the "Implementation Type Documentation Requirements for SCA Assembly Model Version 1.1 Specification"</u>
<u>Prescription Level</u>	<u>Mandatory</u>
<u>Tags</u>	<u>"implementation type" "requirements"</u>

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<u>Assertion ID</u>	<u>ASM-TA-10002</u>
<u>Source</u>	<u>[ASM11002]</u>
<u>Target</u>	<u><binding/> extension element</u>
<u>Prerequisites</u>	
<u>Predicate</u>	<u>extension element is declared as an element in the substitution group of the sca:binding element</u>
<u>Prescription Level</u>	<u>Mandatory</u>
<u>Tags</u>	<u>"binding extension" "element" "substitution group"</u>

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<u>Assertion ID</u>	<u>ASM-TA-11003</u>
<u>Source</u>	<u>[ASM11003]</u>
<u>Target</u>	<u><binding/> extension element</u>
<u>Prerequisites</u>	
<u>Predicate</u>	<u>extension element is declared as a type which is an extension of the sca:Biding type</u>
<u>Prescription Level</u>	<u>Mandatory</u>
<u>Tags</u>	<u>"binding extension" "element" "type"</u>

936

937 **A.9. Test Assertions for SCA Assembly Specification Section 10**

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<u>Assertion ID</u>	<u>ASM-TA-12001</u>
<u>Source</u>	<u>[ASM12001]</u>
<u>Target</u>	<u>SCA contribution</u>

<u>Prerequisites</u>	
<u>Predicate</u>	<u>Artifacts of the contribution are presented as a hierarchy of resources based off a single root</u>
<u>Prescription Level</u>	<u>Mandatory</u>
<u>Tags</u>	<u>"contribution" "resources" "hierarchy"</u>

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<u>Assertion ID</u>	<u>ASM-TA-12002</u>
<u>Source</u>	<u>[ASM12002]</u>
<u>Target</u>	<u>SCA contribution</u>
<u>Prerequisites</u>	
<u>Predicate</u>	<u>Directory with the name META-INF exists at the root of the contribution</u>
<u>Prescription Level</u>	<u>Optional</u>
<u>Tags</u>	<u>"contribution" "META-INF"</u>

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942

<u>Assertion ID</u>	<u>ASM-TA-12003</u>
<u>Source</u>	<u>[ASM12003]</u>
<u>Target</u>	<u>SCA contribution</u>
<u>Prerequisites</u>	<u>Contribution has a META-INF directory at the root (ASM-TA-12002)</u>
<u>Predicate</u>	<u>Contribution META-INF directory contains a file with the name sca-contribution.xml</u>
<u>Prescription Level</u>	<u>Optional</u>
<u>Tags</u>	<u>"contribution" "META-INF" "sca-contribution.xml"</u>

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<u>Assertion ID</u>	<u>ASM-TA-12005</u>
<u>Source</u>	<u>[ASM12005]</u>
<u>Target</u>	<u>Artifact related declarations of how to resolve artifacts referenced in contribution</u>
<u>Prerequisites</u>	<u>Contribution contains references to artifacts not contained within the contribution but exist elsewhere such as in other contributions</u>
<u>Predicate</u>	<u>Artifacts are resolved using artifact related mechanisms</u>

<u>Prescription Level</u>	<u>Mandatory</u>
<u>Tags</u>	<u>“contribution” “artifact” “resolution”</u>

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<u>Assertion ID</u>	<u>ASM-TA-12006</u>
<u>Source</u>	<u>[ASM12021]</u>
<u>Target</u>	<u>Artifact related declaration of how to resolve an artifact referenced in contribution</u>
<u>Prerequisites</u>	<u>Artifact cannot be found using artifact related mechanisms</u>
<u>Predicate</u>	<u>SCA runtime reports an error</u>
<u>Prescription Level</u>	<u>Mandatory</u>
<u>Tags</u>	<u>“contribution” “artifact” “resolution”</u>

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948

<u>Assertion ID</u>	<u>ASM-TA-12007</u>
<u>Source</u>	<u>[ASM12006]</u>
<u>Target</u>	<u>Contribution in ZIP packaging format</u>
<u>Prerequisites</u>	
<u>Predicate</u>	<u>SCA runtime accepts contribution</u>
<u>Prescription Level</u>	<u>Mandatory</u>
<u>Tags</u>	<u>“contribution” “ZIP”</u>

949

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<u>Assertion ID</u>	<u>ASM-TA-12008</u>
<u>Source</u>	<u>[ASM12007]</u>
<u>Target</u>	<u>2 contributions with exported artifacts</u>
<u>Prerequisites</u>	<u>An artifact name exported by one contribution is the same as an artifact name exported by the second contribution</u>
<u>Predicate</u>	<u>All artifact names exported by one contribution are different from any artifact name exported by the second contribution</u>
<u>Prescription Level</u>	<u>Optional</u>
<u>Tags</u>	<u>“contribution” “artifact” “name”</u>

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<u>Assertion ID</u>	<u>ASM-TA-12010</u>
<u>Source</u>	<u>[ASM12009]</u>
<u>Target</u>	<u>Contribution which has dependent contributions from which it resolves artifacts</u>
<u>Prerequisites</u>	<u>2 indirect dependent contributions (ie dependents of dependents) export conflicting artifacts</u>
<u>Predicate</u>	<u>Conflicting dependent contributions are resolved by an entry in the dependent contribution list of the contribution</u>
<u>Prescription Level</u>	<u>Mandatory</u>
<u>Tags</u>	<u>"contribution" "import" "conflict"</u>

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<u>Assertion ID</u>	<u>ASM-TA-12011</u>
<u>Source</u>	<u>[ASM12010]</u>
<u>Target</u>	<u>Contribution contains a reference to an artifact which is marked with a non-SCA artifact resolution mechanism</u>
<u>Prerequisites</u>	
<u>Predicate</u>	<u>Non-SCA artifact resolution mechanism is used to resolve the artifact reference</u>
<u>Prescription Level</u>	<u>Mandatory</u>
<u>Tags</u>	<u>"contribution" "non-SCA" "artifact" "resolution"</u>

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<u>Assertion ID</u>	<u>ASM-TA-12012</u>
<u>Source</u>	<u>[ASM12011]</u>
<u>Target</u>	<u>Contribution contains a reference to an artifact which is marked with a non-SCA artifact resolution mechanism</u>
<u>Prerequisites</u>	<u>Non-SCA artifact resolution mechanism does not resolve the artifact</u>
<u>Predicate</u>	<u>SCA runtime reports an error that it cannot resolve the artifact</u>
<u>Prescription Level</u>	<u>Mandatory</u>
<u>Tags</u>	<u>"contribution" "non-SCA" "artifact" "resolution"</u>

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Assertion ID	ASM-TA-12013
Source	[ASM12012]
Target	<reference/> of a <component/> deployed at the SCA Domain level.
Prerequisites	1) <reference/> has no target service configured by any means (no @target attribute, no child <binding/> elements, no @autowire attribute, no <wire/> elements with this reference in the @source attribute) 2) at least one <component/> <service/> is deployed in the Domain that is compatible with the <component/> <reference/> (ie this service is a valid target for a wire from the <component/> <reference/>)
Predicate	The <reference/> remains unwired and as a result cannot be invoked by the <component/> <implementation/>. (The principle here is that the autowire process is NOT used to wire the reference – since @autowire=false for the Domain itself)
Prescription Level	Mandatory
Tags	“Domain” “autowire” “component” “reference”

959

960

Assertion ID	ASM-TA-12014
Source	[ASM12013]
Target	<reference/> with @autowire=true of a <component/> which is deployed to the Domain
Prerequisites	(SCA runtime does not support autowire at the Domain level)
Predicate	<component/> is not deployed to the Domain and an error is reported
Prescription Level	Optional
Tags	“Domain” “autowire” “component” “reference”

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Assertion ID	ASM-TA-12015
Source	[ASM12013]
Target	<reference/> with @autowire=true of a <component/> which is deployed to the Domain
Prerequisites	1) SCA runtime supports autowire at the Domain level 2) SCA Domain contains one <component/> <service/> that is compatible with the <component/> <reference/>
Predicate	<reference/> is wired to the compatible <component/> <service/>
Prescription	Optional

<u>Level</u>	
<u>Tags</u>	"Domain" "autowire" "component" "reference"

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<u>Assertion ID</u>	ASM-TA-12016
<u>Source</u>	[ASM12013]
<u>Target</u>	<reference/> with @autowire=true of a <component/> which is deployed to the Domain
<u>Prerequisites</u>	<ul style="list-style-type: none"> 1) SCA runtime supports autowire at the Domain level 2) SCA runtime only evaluates autowire targets when a component is deployed 3) SCA Domain contains one <component/> <service/> that is compatible with the <component/> <reference/>, when the <component/> <reference/> is deployed 4) An additional <component/> <service/> compatible with the <component/> <reference/> s deployed to the SCA Domain, later than the time when the <component/> <reference/> is deployed.
<u>Predicate</u>	<reference/> wiring remains unchanged when the second <component/> <service/> is deployed
<u>Prescription Level</u>	Optional
<u>Tags</u>	"Domain" "autowire" "component" "reference"

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<u>Assertion ID</u>	ASM-TA-12017
<u>Source</u>	[ASM12013]
<u>Target</u>	<reference/> with @autowire=true of a <component/> which is deployed to the Domain
<u>Prerequisites</u>	<ul style="list-style-type: none"> 1) SCA runtime supports autowire at the Domain level 2) SCA runtime re-evaluates autowire targets when the Domain configuration is updated by deployment actions 3) SCA Domain contains one <component/> <service/> that is compatible with the <component/> <reference/>, when the <component/> <reference/> is deployed 4) An additional <component/> <service/> compatible with the <component/> <reference/> s deployed to the SCA Domain, later than the time when the <component/> <reference/> is deployed. 5) <reference/> has multiplicity 0..n
<u>Predicate</u>	<reference/> wiring is updated when the second <component/> <service/> is deployed and the <reference/> is able to invoke the second <component/> <service/>
<u>Prescription Level</u>	Optional
<u>Tags</u>	"Domain" "autowire" "component" "reference"

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Assertion ID	ASM-TA-12018
Source	[ASM12014]
Target	<reference/> of <component/> deployed at the SCA Domain level
Prerequisites	1) SCA runtime supports updating of <reference/> targets at runtime 2) New <wire/> element is deployed to the SCA Domain, with @source set to the <component/> <reference/> and @source set to a <component/> <service/> which is compatible with the <component/> <reference/>
Predicate	<reference/> wiring is updated when the <wire/> is deployed and the <reference/> is able to invoke the <component/> <service/> declared by the <wire/> @target attribute.
Prescription Level	Optional
Tags	"Domain" "component" "reference" "wire" "update"

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Assertion ID	ASM-TA-12019
Source	[ASM12015]
Target	<component/> at the SCA domain level
Prerequisites	1) Configuration of the <component/> is updated by a deployment action 2) <component/> has an invocable <service/>
Predicate	Invocation of the <component/> <service/> by a new client after the deployment action is complete reflects the updated configuration of the <component/>
Prescription Level	Mandatory
Tags	"component" "configuration" "update" "Domain"

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Assertion ID	ASM-TA-12020
Source	[ASM12016]
Target	<component/> at the SCA domain level
Prerequisites	1) Configuration of the <component/> is updated by a deployment action 2) Instances of the <component/> are in existence at the time of the deployment action

	<u>3) SCA runtime maintains existing instances with the old configuration after the configuration is updated by the deployment action</u>
<u>Predicate</u>	<u><component/> instances with the initial configuration continue to exist and to service requests after the deployment action has completed</u>
<u>Prescription Level</u>	<u>Optional</u>
<u>Tags</u>	<u>"component" "configuration" "update" "Domain"</u>

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<u>Assertion ID</u>	<u>ASM-TA-12021</u>
<u>Source</u>	<u>[ASM12016]</u>
<u>Target</u>	<u><component/> at the SCA domain level</u>
<u>Prerequisites</u>	<u>1) Configuration of the <component/> is updated by a deployment action</u> <u>2) Instances of the <component/> are in existence at the time of the deployment action</u> <u>3) SCA runtime stops and discards existing instances with the old configuration after the configuration is updated by the deployment action</u>
<u>Predicate</u>	<u><component/> instances with the initial configuration are stopped and discarded and cease to service requests after the deployment action has completed</u>
<u>Prescription Level</u>	<u>Optional</u>
<u>Tags</u>	<u>"component" "configuration" "update" "Domain"</u>

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<u>Assertion ID</u>	<u>ASM-TA-12022</u>
<u>Source</u>	<u>[ASM12017]</u>
<u>Target</u>	<u><reference/> of a <component/> where the reference is wired to the <service/> of a second <component/></u>
<u>Prerequisites</u>	<u>1) second <component/> is removed by a deployment action</u> <u>2) <reference/> wire is not the result of the autowire process</u>
<u>Predicate</u>	<u>Invocation of any operation of the <reference/> receives a Service Unavailable fault</u>
<u>Prescription Level</u>	<u>Optional</u>
<u>Tags</u>	<u>"component" "reference" "deployment" "remove" "target"</u>

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Assertion ID	ASM-TA-12023
Source	[ASM12017]
Target	<reference/> of a <component/> where the reference is wired to the <service/> of a second <component/>
Prerequisites	<ul style="list-style-type: none"> 1) second <component/> is removed by a deployment action 2) <reference/> wire is the result of the autowire process 3) SCA runtime supports dynamic rewiring of references 4) a third <component/> exists in the Domain which has a <service/> which is compatible with the <component/> <reference/>
Predicate	After the deployment action is complete, <reference/> becomes wired to the <service/> of the third <component/> and service invocations through the <reference/> result in invocations of the operations of the <service/> of the third <component/>
Prescription Level	Optional
Tags	"component" "reference" "deployment" "remove" "target" "autowire"

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Assertion ID	ASM-TA-12024
Source	[ASM12018]
Target	<component/> <service/> that is the target of a wire
Prerequisites	1) <component/> configuration is updated by a deployment action
Predicate	invocations to the <service/> over that wire that take place after the deployment action is complete use the new configuration of the <component/>
Prescription Level	Preferred
Tags	"component" "service" "deployment" "update" "target"

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Assertion ID	ASM-TA-12025
Source	[ASM12020]
Target	<reference/> with @autowire=true of a <component/> deployed at the Domain level
Prerequisites	<ul style="list-style-type: none"> 1) new <component/> is deployed into the Domain which has a <service/> that is a compatible with the <reference/> 2) SCA runtime supports dynamic update of references
Predicate	target(s) of the <reference/> are dynamically updated so that all invocations of the <reference/> after the deployment of the new <component/> is

	<u>complete can use the <service/> of the new <component/></u>
<u>Prescription Level</u>	<u>Optional</u>
<u>Tags</u>	<u>"component" "reference" "autowire" "target" "deployment" "dynamic"</u>

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<u>Assertion ID</u>	<u>ASM-TA-12026</u>
<u>Source</u>	<u>[ASM12020]</u>
<u>Target</u>	<u><reference/> with @autowire=true of a <component/> deployed at the Domain level</u>
<u>Prerequisites</u>	<u>1) new <component/> is deployed into the Domain which has a <service/> that is a compatible with the <reference/></u> <u>2) SCA runtime does not support dynamic update of references</u>
<u>Predicate</u>	<u>target(s) of the <reference/> remain unchanged until its <component/> is stopped and restarted - invocation of operations of the <reference/> cannot use the <service/> of the new <component/> until this occurs.</u>
<u>Prescription Level</u>	<u>Optional</u>
<u>Tags</u>	<u>"component" "reference" "autowire" "target" "deployment"</u>

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<u>Assertion ID</u>	<u>ASM-TA-12027</u>
<u>Source</u>	<u>[ASM12022]</u>
<u>Target</u>	<u>a reference to an artifact in a contribution where that artifact is resolved using the SCA import mechanism</u>
<u>Prerequisites</u>	<u>1) the <contribution/> document has multiple <import/> declarations which relate to the namespace of the referenced artifact</u>
<u>Predicate</u>	<u>the search to resolve the artifact is conducted by searching the locations identified by the <import/> declarations in the order in which the <import/> statements appear in the <contribution/> document</u>
<u>Prescription Level</u>	<u>Mandatory</u>
<u>Tags</u>	<u>"contribution" "import" "artifact" "resolution" "multiple"</u>

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<u>Assertion ID</u>	<u>ASM-TA-12028</u>
<u>Source</u>	<u>[ASM12023]</u> <u>[ASM12024]</u>

<u>Target</u>	<u>a reference to an artifact in a contribution where that artifact is resolved using the SCA import mechanism</u>
<u>Prerequisites</u>	<u>1) the <contribution/> document has an <import/> declaration for the namespace of the artifact</u> <u>2) the location identified by the <import/> declaration contains an instance of the artifact</u> <u>3) the contribution containing the reference to the artifact also contains an instance of the artifact</u>
<u>Predicate</u>	<u>the artifact reference is resolved to the artifact instance from the location identified by the <import/> declaration</u>
<u>Prescription Level</u>	<u>Mandatory</u>
<u>Tags</u>	<u>“contribution” “import” “artifact” “resolution”</u>

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<u>Assertion ID</u>	<u>ASM-TA-12029</u>
<u>Source</u>	<u>[ASM12023]</u>
<u>Target</u>	<u>a reference to an artifact in a contribution where that artifact is resolved using the SCA import mechanism</u>
<u>Prerequisites</u>	<u>1) the <contribution/> document has an <import/> declaration for the namespace of the artifact</u> <u>2) the location identified by the <import/> declaration does not contain an instance of the artifact</u> <u>3) the contribution containing the reference to the artifact also contains an instance of the artifact</u>
<u>Predicate</u>	<u>the artifact reference is resolved to the artifact instance in the contribution which contains the reference</u>
<u>Prescription Level</u>	<u>Mandatory</u>
<u>Tags</u>	<u>“contribution” “import” “artifact” “resolution”</u>

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<u>Assertion ID</u>	<u>ASM-TA-12030</u>
<u>Source</u>	<u>[ASM12026]</u>
<u>Target</u>	<u>a reference to an artifact in a contribution which resolves to an artifact instance in a second contribution</u>
<u>Prerequisites</u>	<u>1) the resolved artifact has references to yet further artifacts</u> <u>2) both the original contribution and the second contribution have <import/> statements relating to namespace(s) of the additional artifacts</u>

<u>Predicate</u>	<u>the artifact references of the resolved artifact instance are resolved using the <import/> statements of the contribution which contains the artifact instance</u>
<u>Prescription Level</u>	<u>Mandatory</u>
<u>Tags</u>	<u>"contribution" "import" "artifact" "resolution"</u>

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<u>Assertion ID</u>	<u>ASM-TA-12031</u>
<u>Source</u>	<u>[ASM12025]</u>
<u>Target</u>	<u>a reference to an artifact in a contribution where that artifact is resolved using the SCA import mechanism</u>
<u>Prerequisites</u>	<u>1) the <contribution/> document has an <import/> declaration for the namespace of the artifact</u> <u>2) the location identified by the <import/> declaration does not contain an instance of the artifact</u> <u>3) the contribution containing the reference to the artifact also does not contain an instance of the artifact</u>
<u>Predicate</u>	<u>the artifact references remains unresolved and the SCA runtime reports an error to this effect</u>
<u>Prescription Level</u>	<u>Mandatory</u>
<u>Tags</u>	<u>"contribution" "import" "artifact" "resolution" "unresolved" "error"</u>

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<u>Assertion ID</u>	<u>ASM-TA-12031</u>
<u>Source</u>	<u>[ASM12025]</u>
<u>Target</u>	<u>a reference to an artifact in a contribution where that artifact is resolved using the SCA import mechanism</u>
<u>Prerequisites</u>	<u>1) the <contribution/> document has an <import/> declaration for the namespace of the artifact</u> <u>2) the location identified by the <import/> declaration does not contain an instance of the artifact</u> <u>3) the contribution containing the reference to the artifact also does not contain an instance of the artifact</u>
<u>Predicate</u>	<u>the artifact references remains unresolved and the SCA runtime reports an error to this effect</u>
<u>Prescription Level</u>	<u>Mandatory</u>

Tags	"contribution" "import" "artifact" "resolution" "unresolved" "error"
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Assertion ID	ASM-TA-12032
Source	[ASM12027]
Target	sca-contribution.xml file in an SCA contribution
Prerequisites	sca-contribution.xml file contents do not conform to the sca-contribution.xsd
Predicate	SCA runtime raises an error when it reads the sca-contribution.xml file
Prescription Level	Mandatory
Tags	"sca-contribution.xsd" "sca-contribution.xml"

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Assertion ID	ASM-TA-12034
Source	[ASM12030]
Target	@namespace attribute <export/> element in sca-contribution.xml file in an SCA contribution
Prerequisites	contribution contains one or more XML artifacts
Predicate	@namespace attribute contains the namespace of one or more of the XML artifacts contained in the contribution
Prescription Level	Optional
Tags	"sca-contribution.xsd" "export" "namespace" "artifacts"

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Assertion ID	ASM-TA-12035
Source	[ASM12031]
Target	artifact with dependencies
Prerequisites	<ul style="list-style-type: none"> a) artifact is contained within a first SCA contribution b) artifact is exported from the first contribution c) artifact is used as a dependency by a second artifact in a second contribution, which imports the namespace of the first artifact d) both first contribution and the second contribution contain artifacts that could satisfy the dependencies of the first artifact
Predicate	the artifacts dependencies are resolved within the context of the first contribution

<u>Prescription Level</u>	<u>Mandatory</u>
<u>Tags</u>	<u>"artifact" "resolution" "context" "contribution"</u>

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<u>Assertion ID</u>	<u>ASM-TA-12036</u>
<u>Source</u>	<u>[ASM12034]</u>
<u>Target</u>	<u>Property value of a domain level component</u>
<u>Prerequisites</u>	<u>a) property value is obtained from a domain level <property/> through use of the @source attribute</u> <u>b) value of domain level <property/> element is updated by means of deployment actions</u> <u>c) component is stopped and restarted after the domain level <property/> value has been updated</u>
<u>Predicate</u>	<u>Property value of the domain level component is the same as the new value of the domain level <property/> element</u>
<u>Prescription Level</u>	<u>Mandatory</u>
<u>Tags</u>	<u>"property" "value" "domain" "source" "update"</u>

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<u>Assertion ID</u>	<u>ASM-TA-12037</u>
<u>Source</u>	<u>[ASM12034]</u>
<u>Target</u>	<u>Property value of a domain level component</u>
<u>Prerequisites</u>	<u>a) property value is obtained from a domain level <property/> through use of the @source attribute</u> <u>b) value of domain level <property/> element is updated by means of deployment actions</u> <u>c) component is not stopped and restarted after the domain level <property/> value has been updated</u>
<u>Predicate</u>	<u>Property value of the domain level component is the same as the new value of the domain level <property/> element</u>
<u>Prescription Level</u>	<u>Optional</u>
<u>Tags</u>	<u>"property" "value" "domain" "source" "update"</u>

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<u>Assertion ID</u>	<u>ASM-TA-12038</u>
<u>Source</u>	<u>[ASM12034]</u>

<u>Target</u>	<u>Contribution containing artifacts</u>
<u>Prerequisites</u>	<u>a) Artifacts are all in installed state</u> <u>b) none of the artifacts in the Contribution are deployed or running</u> <u>c) one of the artifacts in the Contribution contains statically checkable errors</u>
<u>Predicate</u>	<u>The errors in the artifact are not reported and other deployed artifacts continue to run correctly</u>
<u>Prescription Level</u>	<u>Mandatory</u>
<u>Tags</u>	<u>"contribution" "artifacts" "error" "installed"</u>

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<u>Assertion ID</u>	<u>ASM-TA-12039</u>
<u>Source</u>	<u>[ASM12033]</u>
<u>Target</u>	<u>Contribution containing artifacts</u>
<u>Prerequisites</u>	<u>a) one of the artifacts in the Contribution contains statically checkable errors</u> <u>b) artifact containing errors is first deployed and then put into the running state</u>
<u>Predicate</u>	<u>SCA runtime raises an error and does not run the artifact that contains the error</u>
<u>Prescription Level</u>	<u>Mandatory</u>
<u>Tags</u>	<u>"artifacts" "errors" "deployed" "running"</u>

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1012 | **A.10. Test Assertions for SCA Assembly Specification Section 11**

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<u>Assertion ID</u>	<u>ASM-TA-14005</u>
<u>Source</u>	<u>[ASM14005]</u>
<u>Target</u>	<u>SCA Domain and its contents</u>
<u>Prerequisites</u>	<u>The Domain or any of its contents are in error</u>
<u>Predicate</u>	<u>SCA runtime raises an error</u>
<u>Prescription Level</u>	<u>Mandatory</u>
<u>Tags</u>	<u>"domain" "contents" "error"</u>

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1015 | **A.11. Test Assertions for SCA Assembly Specification Section 12**

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<u>Assertion ID</u>	ASM-TA-13001
<u>Source</u>	[ASM13001]
<u>Target</u>	Composite file that violates one or more of the sca-core.xsd , sca-interface-wsdl.xsd , sca-implementation-composite.xsd and sca-binding-sca.xsd schemas.
<u>Prerequisites</u>	
<u>Predicate</u>	SCA runtime rejects the composite file and raises an error
<u>Prescription Level</u>	Mandatory
<u>Tags</u>	"composite" "schema" "error"

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<u>Assertion ID</u>	ASM-TA-13002
<u>Source</u>	[ASM13002]
<u>Target</u>	Contribution file that violates the sca-contribution.xsd schema.
<u>Prerequisites</u>	
<u>Predicate</u>	SCA runtime rejects the contribution file and raises an error
<u>Prescription Level</u>	Mandatory
<u>Tags</u>	"contribution" "schema" "error"

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<u>Assertion ID</u>	ASM-TA-13003
<u>Source</u>	[ASM13003]
<u>Target</u>	definitions file that does not conform to the sca-definitions.xsd schema
<u>Prerequisites</u>	
<u>Predicate</u>	SCA runtime rejects the definitions file and raises an error
<u>Prescription Level</u>	Mandatory
<u>Tags</u>	"composite" "schema" "error"

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Appendix B. Cross Mapping of Normative Statements to Test Assertions

This section contains a list of normative statements in the SCA Assembly specification and the corresponding Test Assertions.

<u>Conformance statement</u>	<u>Test Assertion</u>
<u>ASM40001</u>	<u>Not testable</u>
<u>ASM40003</u>	<u>ASM-TA-4002</u>
<u>ASM40004</u>	<u>ASM-TA-4003</u>
<u>ASM40005</u>	<u>ASM-TA-4004</u>
<u>ASM40006</u>	<u>ASM-TA-4005</u>
<u>ASM40007</u>	<u>ASM-TA-4006</u>
<u>ASM40008</u>	<u>ASM-TA-4007</u>
<u>ASM40009</u>	<u>ASM-TA-4008</u>
<u>ASM40010</u>	<u>ASM-TA-4009</u> <u>ASM-TA-4010</u>
<u>ASM40011</u>	<u>ASM-TA-4011</u>
<u>ASM40012</u>	<u>ASM-TA-4012</u>

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<u>Conformance statement</u>	<u>Test Assertion</u>
<u>ASM50001</u>	<u>ASM-TA-5005</u>
<u>ASM50002</u>	<u>ASM-TA-5001</u>
<u>ASM50003</u>	<u>ASM-TA-5002</u>
<u>ASM50004</u>	<u>ASM-TA-5006</u> <u>ASM-TA-8009</u> <u>ASM-TA-8011</u>
<u>ASM50005</u>	<u>ASM-TA-5007</u> <u>ASM-TA-5008</u> <u>ASM-TA-5009</u>
<u>ASM50006</u>	<u>ASM-TA-5043</u>
<u>ASM50007</u>	<u>ASM-TA-5003</u>
<u>ASM50008</u>	<u>ASM-TA-5004</u>
<u>ASM50009</u>	<u>ASM-TA-5010</u> <u>ASM-TA-5011</u> <u>ASM-TA-5012</u>

<u>Conformance statement</u>	<u>Test Assertion</u>
	ASM-TA-5013
ASM50010	ASM-TA-5014 ASM-TA-5015
ASM50011	ASM-TA-5016 ASM-TA-8010 ASM-TA-8011
ASM50012	ASM-TA-5017 ASM-TA-5018
ASM50013	ASM-TA-5019 ASM-TA-5020
ASM50014	ASM-TA-5021 ASM-TA-5022 ASM-TA-5023
ASM50015	ASM-TA-5024
ASM50016	Untestable (leave for Bindings specs)
ASM50022	ASM-TA-5027
ASM50025	ASM-TA-5029
ASM50026	ASM-TA-5030
ASM50027	ASM-TA-5031
ASM50028	ASM-TA-5032
ASM50029	ASM-TA-5033
ASM50031	ASM-TA-5034
ASM50032	ASM-TA-5036
ASM50033	ASM-TA-5037
ASM50034	ASM-TA-5038
ASM50035	ASM-TA-5039 ASM-TA-5040
ASM50036	ASM-TA-5041
ASM50037	ASM-TA-5042
ASM50038	ASM-TA-5045 ASM-TA-5046
ASM50039	ASM-TA-5028
ASM50040	ASM-TA-5025 ASM-TA-5027
ASM50041	ASM-TA-5026
ASM50042	ASM-TA-5047

<u>Conformance statement</u>	<u>Test Assertion</u>
<u>ASM50043</u>	<u>ASM-TA-5048</u> <u>ASM-TA-5049</u>
<u>ASM50044</u>	<u>ASM-TA-5050</u>
<u>ASM50045</u>	<u>ASM-TA-5051</u>
<u>ASM50046</u>	<u>ASM-TA-5052</u> <u>ASM-TA-5053</u>

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<u>Conformance statement</u>	<u>Test Assertion</u>
<u>ASM60001</u>	<u>ASM-TA-6004</u>
<u>ASM60002</u>	<u>ASM-TA-6005</u>
<u>ASM60003</u>	<u>ASM-TA-6006</u>
<u>ASM60004</u>	<u>ASM-TA-6007</u>
<u>ASM60005</u>	<u>ASM-TA-6008</u> <u>ASM-TA-8012</u> <u>ASM-TA-8014</u>
<u>ASM60006</u>	<u>ASM-TA-6009</u>
<u>ASM60007</u>	<u>ASM-TA-6010</u>
<u>ASM60008</u>	<u>ASM-TA-6011</u> <u>ASM-TA-6012</u>
<u>ASM60009</u>	<u>ASM-TA-6013</u>
<u>ASM60010</u>	<u>ASM-TA-6014</u>
<u>ASM60011</u>	<u>ASM-TA-6015</u> <u>ASM-TA-6016</u> <u>ASM-TA-6017</u> <u>ASM-TA-6018</u>
<u>ASM60012</u>	<u>ASM-TA-6011</u> <u>ASM-TA-8013</u> <u>ASM-TA-8014</u>
<u>ASM60013</u>	<u>ASM-TA-6012</u>
<u>ASM60014</u>	<u>ASM-TA-6019</u>
<u>ASM60022</u>	<u>ASM-TA-6020</u> <u>ASM-TA-6021</u>
<u>ASM60024</u>	<u>ASM-TA-6022</u> <u>ASM-TA-6023</u>
<u>ASM60025</u>	<u>ASM-TA-6024</u>
<u>ASM60026</u>	<u>ASM-TA-6025</u>

<u>Conformance statement</u>	<u>Test Assertion</u>
ASM60027	ASM-TA-6026
ASM60028	ASM-TA-6027
ASM60030	ASM-TA-6031
ASM60031	ASM-TA-6032
ASM60032	ASM-TA-6028
ASM60033	ASM-TA-6029
ASM60034	ASM-TA-6030
ASM60035	ASM-TA-6033
ASM60036	ASM-TA-6034
ASM60037	ASM-TA-6035
ASM60038	ASM-TA-6036
ASM60039	ASM-TA-6037
ASM60040	ASM-TA-6038 ASM-TA-6039
ASM60041	ASM-TA-6040
ASM60042	ASM-TA-6041
ASM60043	ASM-TA-6042
ASM60045	ASM-TA-6043
ASM60046	ASM-TA-6044
ASM60047	ASM-TA-6045
ASM60048	ASM-TA-6046
ASM60049	ASM-TA-6047
ASM60050	ASM-TA-6048
ASM60051	ASM-TA-6049

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<u>Conformance statement</u>	<u>Test Assertion</u>
ASM80001	ASM-TA-8020
ASM80002	ASM-TA-8001
ASM80003	ASM-TA-8002 ASM-TA-8003
ASM80004	ASM-TA-8004
ASM80005	ASM-TA-8005 ASM-TA-8006

<u>Conformance statement</u>	<u>Test Assertion</u>
<u>ASM80008</u>	<u>ASM-TA-8018</u>
<u>ASM80009</u>	<u>ASM-TA-8015</u>
<u>ASM80010</u>	<u>ASM-TA-8007</u>
<u>ASM80011</u>	<u>ASM-TA-8008</u>
<u>ASM80016</u>	<u>ASM-TA-8021</u>
<u>ASM80017</u>	<u>ASM-TA-8022</u>

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<u>Conformance statement</u>	<u>Test Assertion</u>
<u>ASM90001</u>	<u>ASM-TA-9002</u>
<u>ASM90002</u>	<u>ASM-TA-9003</u>
<u>ASM90003</u>	<u>ASM-TA-9004</u>
<u>ASM90004</u>	<u>ASM-TA-9005</u>
<u>ASM90005</u>	<u>ASM-TA-9006</u>

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<u>Conformance statement</u>	<u>Test Assertion</u>
<u>ASM10001</u>	<u>ASM-TA-10001</u>
<u>ASM10002</u>	<u>ASM-TA-10002</u>
<u>ASM00003</u>	<u>ASM-TA-10003</u>

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1037 **No testcases**

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5 Cross Mapping of Test Assertions to TestCases

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<u>Conformance statement</u>	<u>Test Assertion</u>
ASM11001	ASM-TA-11001
ASM11002	ASM-TA-11002
ASM11003	ASM-TA-11003

<u>Test Assertion</u>	<u>Test Cases</u>
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

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<u>Test Assertion</u>	<u>Test Cases</u>
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-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
ASM-TA-5031	ASM_5038_TestCase
ASM-TA-5045	ASM_5039_TestCase
ASM-TA-5046	ASM_5025_TestCase ASM_5036_TestCase
ASM-TA-5047	ASM_5040_TestCase
ASM-TA-5048	ASM_5041_TestCase
ASM-TA-5049	ASM_5042_TestCase
ASM-TA-5050	Untestable

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<u>Conformance statement</u>	<u>Test Assertion</u>
<u>ASM12001</u>	<u>ASM-TA-12001</u>
<u>ASM12002</u>	<u>ASM-TA-12002</u>
<u>ASM12003</u>	<u>ASM-TA-12003</u>
<u>ASM12005</u>	<u>ASM-TA-12005</u>
<u>ASM12006</u>	<u>ASM-TA-12007</u>
<u>ASM12009</u>	<u>ASM-TA-12010</u>
<u>ASM12010</u>	<u>ASM-TA-12011</u>
<u>ASM12011</u>	<u>ASM-TA-12012</u>
<u>ASM12012</u>	<u>ASM-TA-12013</u>
<u>ASM12021</u>	<u>ASM-TA-12006</u>

<u>Conformance statement</u>	<u>Test Assertion</u>
<u>ASM12022</u>	<u>ASM-TA-12027</u>
<u>ASM12023</u>	<u>ASM-TA-12028</u> <u>ASM-TA-12029</u>
<u>ASM12024</u>	<u>ASM-TA-12028</u>
<u>ASM12025</u>	<u>ASM-TA-12031</u>
<u>ASM12026</u>	<u>ASM-TA-12030</u>
<u>ASM12027</u>	<u>ASM-TA-12032</u>
<u>ASM12028</u>	<u>Untestable</u>
<u>ASM12030</u>	<u>ASM-TA-12034</u>
<u>ASM12031</u>	<u>ASM-TA-12035</u>
<u>ASM12032</u>	<u>ASM-TA-12038</u>
<u>ASM12033</u>	<u>ASM-TA-12039</u>
<u>ASM12034</u>	<u>ASM-TA-12036</u> <u>ASM-TA-12037</u>

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	Untestable due to lack of mandatory support for Intents
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
ASM-TA-6042	ASM_6034_TestCase
ASM-TA-6043	Tests the introspection of componentType for a composite. No specific test case for this, since almost all the tests in the test suite depend on this introspection and as a result it is heavily tested.
ASM-TA-6044	ASM_6035_TestCase
ASM-TA-6045	ASM_6036_TestCase
ASM-TA-6046	ASM_6037_TestCase
ASM-TA-6047	ASM_6038_TestCase
ASM-TA-6048	ASM_6039_TestCase
ASM-TA-6049	ASM_6040_TestCase

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<u>Conformance statement</u>	<u>Test Assertion</u>
<u>ASM13001</u>	<u>ASM-TA-13001</u>
<u>ASM13002</u>	<u>ASM-TA-13002</u>
<u>ASM13003</u>	<u>ASM-TA-13003</u>

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<u>Test Assertion</u>	<u>Test Cases</u>
ASM-TA-8001	ASM_8001_TestCase
ASM-TA-8002	ASM_8002_TestCase
ASM-TA-8003	Untestable
ASM-TA-8004	ASM_8003_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

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<u>Conformance statement</u>	<u>Test Assertion</u>
ASM14005	ASM-TA-14005

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Appendix C. Cross Mapping of Test Assertions to TestCases

<u>Test Assertion</u>	<u>Test Cases</u>
<u>ASM-TA-4002</u>	<u>ASM_4002_TestCase</u>
<u>ASM-TA-4003</u>	<u>ASM_4003_TestCase</u>
<u>ASM-TA-4004</u>	<u>ASM_4004_TestCase</u>
<u>ASM-TA-4005</u>	<u>Untestable - no wiredByImpl implementation type available</u>
<u>ASM-TA-4006</u>	<u>ASM_4005_TestCase</u>
<u>ASM-TA-4007</u>	<u>ASM_4006_TestCase</u>
<u>ASM-TA-4008</u>	<u>ASM_5002_TestCase</u>
<u>ASM-TA-4009</u>	<u>ASM_4007_TestCase</u>
<u>ASM-TA-4010</u>	<u>ASM_4007_TestCase</u>
<u>ASM-TA-4011</u>	<u>ASM_4008_TestCase</u>
<u>ASM-TA-4012</u>	<u>Untestable since no implementation type is required to support @file attribute in componentType</u>
<u>Test Assertion</u>	<u>Test Cases</u>
<u>ASM-TA-9002</u>	<u>ASM_9001_TestCase</u>
<u>ASM-TA-9003</u>	<u>ASM_9002_TestCase</u>
<u>ASM-TA-9004</u>	<u>ASM_9003_TestCase</u>
<u>ASM-TA-9005</u>	<u>ASM_9004_TestCase</u>
<u>ASM-TA-9006</u>	<u>ASM_9005_TestCase</u>

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

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_5038_TestCase
ASM-TA-5032	ASM_5025_TestCase
ASM-TA-5033	ASM_5026_TestCase
ASM-TA-5034	ASM_5027_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
ASM-TA-5045	ASM_5039_TestCase
ASM-TA-5046	ASM_5025_TestCase ASM_5036_TestCase
ASM-TA-5047	ASM_5040_TestCase
ASM-TA-5048	ASM_5041_TestCase
ASM-TA-5049	ASM_5042_TestCase
ASM-TA-5050	Untestable
ASM-TA-5051	ASM_5043_TestCase ASM_5044_TestCase
ASM-TA-5052	ASM_5043_TestCase
ASM-TA-5053	ASM_5044_TestCase

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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 - must be left to an implementation type that supports this capability
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	Untestable due to lack of mandatory support for Intents
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
ASM-TA-6042	ASM_6034_TestCase
ASM-TA-6043	Tests the introspection of componentType for a composite. No specific testcase for this, since almost all the tests in the test suite depend on this introspection and as a result it is heavily tested.
ASM-TA-6044	ASM_6035_TestCase
ASM-TA-6045	ASM_6036_TestCase
ASM-TA-6046	ASM_6037_TestCase
ASM-TA-6047	ASM_6038_TestCase
ASM-TA-6048	ASM_6039_TestCase

ASM-TA-6049	ASM_6040_TestCase
Test Assertion	Test Cases
ASM-TA-10001	ASM_10001_TestCase
ASM-TA-10002	ASM_10002_TestCase
ASM-TA-10003	ASM_10003_TestCase

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Test Assertion	Test Cases
ASM-TA-8001	Language Dependent
ASM-TA-8002	ASM_8002_TestCase
ASM-TA-8003	Untestable
ASM-TA-8004	ASM_8003_TestCase
ASM-TA-8005	Language Dependent
ASM-TA-8006	Language Dependent
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
Test Assertion	Test Cases
ASM-TA-12001	Untestable
ASM-TA-12002	Optional - not worth testing
ASM-TA-12003	Removed by resolution of Issue 205-
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

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<u>Test Assertion</u>	<u>Test Cases</u>
ASM-TA-9002	ASM_9001_TestCase
ASM-TA-9003	ASM_9002_TestCase
ASM-TA-9004	ASM_9003_TestCase
ASM-TA-9005	ASM_9004_TestCase
ASM-TA-9006	ASM_9005_TestCase
Test Assertion	Test Cases
ASM-TA-13001	ASM_13001_TestCase

	<u>ASM_13002_TestCase</u> <u>ASM_13003_TestCase</u> <u>ASM_13004_TestCase</u> <u>ASM_13005_TestCase</u> <u>ASM_13006_TestCase</u> <u>ASM_13007_TestCase</u> <u>ASM_13008_TestCase</u>
<u>ASM-TA-13002</u>	<u>ASM_12012_TestCase</u>
<u>ASM-TA-13003</u>	<u>ASM_10003_TestCase</u>

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<u>Test Assertion</u>	<u>Test Cases</u>
<u>ASM-TA-10001</u>	<u>ASM_10001_TestCase</u>
<u>ASM-TA-10002</u>	<u>ASM_10002_TestCase</u>
<u>ASM-TA-10003</u>	<u>ASM_10003_TestCase</u>
<u>Test Assertion</u>	<u>Test Cases</u>
<u>ASM-TA-14001</u>	<u>Optional - not worth testing</u>
<u>ASM-TA-14002</u>	<u>Optional - not worth testing</u>
<u>ASM-TA-14003</u>	<u>Untestable</u>
<u>ASM-TA-14004</u>	<u>Optional - not worth testing</u>

1057 **6 Catalog of Test Artifacts**

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1059 **6.1 Composite Files – lower level**

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- service1Impl
TestComposite2.composite -	N	2 services – with same name 0 references service1Impl Contribution: ASM_5005
TestComposite3.composite	N	1 service,- 2 references – with same name service1Impl2 Contribution: ASM_5007
TestComposite4.composite <i>"Impl-Specific"</i>	Y	1 service,- 1 reference (1..1) service1Impl2
TestComposite5.composite <i>"Impl-Specific"</i>	Y	1 service – interface = Service2 0 references service2Impl
TestComposite6.composite <i>"Impl-Specific"</i>	Y	1 service,- 1 reference (1..n) service1Impl3
TestComposite7.composite <i>"Impl-Specific"</i>	Y	1 service,- 1 reference (0..n) service1Impl4
TestComposite8.composite <i>"Impl-Specific"</i>	Y	1 service,- 1 reference (0..1) service1Impl6
TestComposite9.composite	Y	1 service – superset interface = Service1Superset

<i>"Impl-Specific"</i>		0 references service1SupersetImpl
TestComposite10.composite	Y	1 service 1 reference (1..1) with binding and target
TestComposite11.composite	N	1 service, 1 reference 1 component with 1..1 reference that is wired and promoted Contribution: ASM_5023
TestComposite12.composite	Y	1 service 0 references 1 property of complex type typed with @type uses TestComposite71
TestComposite13.composite	Y	1 service 0 references 1 property of complex type typed with @element uses TestComposite71
TestComposite14.composite	Y	1 service 0 references 1 property of simple type (string)
TestComposite15.composite	Y	1 service — with multiple bindings declared 0 references
TestComposite16.composite	N	3 services — 2 with same name Contributions: ASM_4002, ASM_6002
TestComposite17.composite	N	2 services — 1 with invalid @promote value Contribution: ASM_6003
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 Contributions: ASM_4003, ASM_6005
TestComposite20.composite	N	1 service, 1 reference with invalid @promote value Contribution: ASM_6006
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) uses TestComposite70
TestComposite23.composite	Y	1 service,- 1 reference (1..1) that promotes component reference with (0..1) multiplicity- uses TestComposite8
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 Contributions: ASM_4004, ASM_6012
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-
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- Contribution: ASM_6016
TestComposite31.composite	N	1 service, composite service has a @promote URI that does not point to a component service within the composite 0 references Contribution: ASM_6021
TestComposite32.composite	N	1 service, contains a component with a 1..n reference that is neither promoted nor wired internally in the composite

		Contribution: ASM_6022
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 Contribution: ASM_6031
TestComposite40.composite	N	1 service, 1 reference where the reference has @requires containing 2 mutually exclusive intents Contribution: ASM_6032
TestComposite41.composite	N	1 service, 1 reference, where the reference multiplicity is 0..1 but the component reference which it promotes has multiplicity 1..1 Contribution: ASM_6033
TestComposite42.composite	Y	1 service, composite has @constrainingType set to a constrainingType to which the composite does conform
TestComposite43.composite	Y	1 service,— 1 reference,— 2 properties. 1 property declares its type using the @type attribute (complex type sca:Callback)
TestComposite44.composite	Y	1 service,— 1 reference,— 2 properties. 1 property declares its type using the @element attribute (complex type sca:callback)
TestComposite45.composite	N	1 service,— 1 reference,—

		2 properties. 1 property declares its type using both an @element attribute and a @type attribute (complex type sca:Callback) Contribution: ASM_4007
TestComposite46.composite	Y	1 service, 1 reference, 2 properties. 1 property declares @mustSupply=true
TestComposite48.composite	Y	2 services
TestComposite49.composite	Y	1 services 2 references, 1 of (0..1), 1 of (0..n)
TestComposite50.composite	Y	1 service, 2 properties with @mustSupply="false"
TestComposite51.composite	N	1 service with invalid remotable interface Service3 that has 2 operations with the same name Contribution: ASM_8001
TestComposite52.composite <i>"Impl Specific"</i>	Y	1 service with Service4 interface service4Impl
TestComposite53.composite <i>"Impl Specific"</i>	Y	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 service1Impl7
TestComposite54.composite <i>"Impl Specific"</i>	Y	1 service 1 reference with a callback Service5 & Service5Callback service1Callback5Impl
TestComposite55.composite <i>"Impl Specific"</i>	Y	1 service with callback Service5 & Service5Callback service5Impl
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 "Impl-Specific"	Y	{ASM_8006} 1 service 1 reference with callback—Service9 & Service9Callback service1Callback9Impl
TestComposite61.composite "Impl-Specific"	Y	{ASM_8006} 1 service with callback—Service9 & Service9Callback service9Impl
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 Contribution: ASM_8011
TestComposite63.composite	N	{ASM_8003} 1 service with callback—where the callback interface is not compatible with the callback interface on the promoted com- ponent service—Service5 & Service8Callback Contribution: ASM_8010
TestComposite64.composite	N	{ASM_8012} 1 service 1 reference (0..1) with callback—Service1 & Service5Callback— where the promoted component reference has no callback de- clared Contribution: ASM_8012
TestComposite65.composite "Impl-Specific"	Y	{ASM_8003} 1 service with a callback—Service5 & Service5Callback— where the implementing component invokes the callback oper- ation multiple times for a single invocation of the forward inter- face service5Impl2
TestComposite66.composite "Impl-Specific"	Y	1 service, remotable, service has Confidentiality applied 0 references service1Impl
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 service1Impl8
TestComposite71.composite <i>"Impl-Specific"</i>	Y	1 service 0 references 2 properties of type string service1Impl5
TestComposite72.composite	N	1 service 1 service with callback – Service1 & Service5Callback – where the promoted component service has no callback declared 0 references Contribution: ASM_8017
TestComposite73.composite <i>"Impl-Specific"</i>	Y	1 service 0 references 1 property of type float
TestComposite74.composite	N	1 service 1 reference "Reference1" – reference promotes a component reference with multiplicity 1..1 and @nonOverridable="true" Contribution ASM_5040
TestComposite75.composite	Y	3 services all with interface = Service1 0 references 0 properties Contribution: General

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Test Assertion	Test Cases
ASM-TA-11001	Depend on a specific implementation extension type

ASM-TA-11002	or extension binding type - leave tests for test suite for the implementation / binding type
ASM-TA-11003	

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6.2 Java Interfaces

<u>Test Assertion</u>	<u>Test Cases</u>
ASM-TA-12001	Untestable, since it is about contribution packaging types and only 1 is required to be supported.
ASM-TA-12002	Many testcases are based on the existence of a META-INF directory in one or more contributions.
ASM-TA-12003	Untestable due to there being no formal deployment API that can assure that "runnable composites" are actually run when deployed.
ASM-TA-12005	ASM_12002_TestCase
ASM-TA-12006	ASM_12003_TestCase
ASM-TA-12007	ASM_12004_TestCase
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-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-12034	Untestable
ASM-TA-12035	ASM_12013_TestCase
ASM-TA-12036	Untestable due to lack of Domain update API
ASM-TA-12037	Untestable due to lack of Domain update API
ASM-TA-12038	Untestable due to lack of deployment API
ASM-TA-12039	Tested by many other tests that contain artifacts in error

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_8004)

	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 = List of Strings
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

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6.3 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.Service1Impl9	1 service 0 references 1 property of type float
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)

1065 **6.4 WSDL Interface Files**

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<u>Test Assertion</u>	<u>Test Cases</u>
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
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 port-

	Type 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 a 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 list of Strings
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

1068 | **7 Conformance**

1069 | ~~There are no conformance statements relating to the TestCases.~~

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<u>Test Assertion</u>	<u>Test Cases</u>
<u>ASM-TA-14005</u>	<u>No specific testcase required since various negative tests depend on the runtime raising an error when artifacts are in error.</u>

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Appendix D. Acknowledgments

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

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Participants:

Participant Name	Affiliation
Bryan Aupperle	IBM
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Appendix E. Revision History

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<u>Revision</u>	<u>Date</u>	<u>Editor</u>	<u>Changes Made</u>
<u>17</u>	<u>2009-04-15</u>	<u>Mike Edwards</u>	<u>Section 4 testcases added</u>
<u>18</u>	<u>2009-04-16</u>	<u>Mike Edwards</u>	<u>Section 7 testcases added</u> <u>Tables of Artifacts added</u>
<u>19</u>	<u>05/04/09</u>	<u>Mike Edwards</u>	<u>Section 8, 9, 10 testcases added</u>
<u>20</u>	<u>05/06/09</u>	<u>Mike Edwards</u>	<u>Section 12 testcases added</u>
<u>21</u>	<u>05/06/09</u>	<u>Mike Edwards</u>	<u>Section 13, 14 testcases added. All sections now covered.</u>
<u>22</u>	<u>05/19/09</u>	<u>Mike Edwards</u>	<u>Most testcases converted to WSDL interfaces</u>
<u>23</u>	<u>06/02/09</u>	<u>Mike Edwards</u>	<u>Added Acknowledgements</u> <u>Added missing descriptions of artifacts</u> <u>Added extra testcases to cover previously untreated Test Assertions</u>
<u>24</u>	<u>06/10/09</u>	<u>Mike Edwards</u>	<u>Added ASM_7010_TestCase</u> <u>Added ASM_8017_TestCase</u> <u>Added ASM_8018_TestCase</u> <u>Added ASM_8019_TestCase</u> <u>Added Namespace and Package Name declarations</u>
<u>25</u>	<u>06/16/09</u>	<u>Mike Edwards</u>	<u>CD01 / Public Review draft 01</u> <u>All changes accepted, file name changed to match OASIS guidelines.</u>
<u>cd01_rev1</u>	<u>03/08/10</u>	<u>Mike Edwards</u>	<u>Issue 205 - deleted ASM_12001_TestCase</u> <u>Issue 165 - descriptions of ASM_8009_TestCase and ASM_8018_TestCase updated</u> <u>Issue 150 - marked ASM_8004_TestCase as language specific and removed from Assembly test suite (given to Java TC for their test suite)</u>
<u>cd01_rev2</u>	<u>03/10/10</u>	<u>Mike Edwards</u>	<u>Issue 172 - Added new testcase ASM_5038 and associated artifacts</u>
<u>cd01_rev3</u>	<u>04/12/10</u>	<u>Mike Edwards</u>	<u>Issue 159 - Testcases deleted, added and re-assigned to align with latest CD of the Assembly specification</u> <u>Issue 154</u> <u>Issue 155</u>

			Issue 161 Issue 162 Issue 163 Issue 164 Issue 165 Issue 166 Issue 167 Issue 168 Issue 169 Issue 170 Issue 171 Issue 172 - Added new testcase ASM_5038_TestCase Issue 173 Issue 174 Issue 184 Issue 185 Issue 186 Issue 190 Issue 191 Issue 193 Issue 196 Issue 197 Issue 198 Issue 199 Issue 202 Issue 205 Issue 207 Issue 208 Issue 209 Issue 216 Issue 219 Issue 226
cd01-Rev4	04/19/10	Mike Edwards	Issue 220 - Remove testcase ASM_6015 and associated artifacts (TestComposite29)

			Issue 224
cd01-Rev5	05/18/10	Mike Edwards	Issue 206 Issue 230
cd01-rev6	06/08/10	Bryan Aupperle	Editorial fixes to front matter including links and references
cd02	06/08/10	Mike Edwards	Create CD02 All changes accepted
cd02-rev1	07/20/10	Mike Edwards	Issue 236 - added testcases: ASM_5043_TestCase ASM_5044_TestCase
cd02-rev2	08/10/10	Bryan Aupperle	Issue 150 - removed testcases: ASM_8001_TestCase ASM_8005_TestCase
cd03	10/08/10	Bryan Aupperle	Create CD03 All changes accepted
wd031	05/23/11	Mike Edwards	<p>1) Include the TestAssertions main body as a new Appendix A</p> <p>2) New Appendix B is the mapping from Normative Statements to TestAssertions from the TestAssertions document</p> <p>3) New Appendix C is the mapping from Test-Assertions to TestCases moved from Section 3 of the TestCases document</p> <p>- old section 3 is removed</p> <p>4) Removed the reference to the Test Assertions document from section 1.4</p> <p>5) Add a reference to the SCA Assembly spec in section 1.4</p> <p>Add a reference to the Test Assertions Guidelines specification.</p> <p>6) Modify section 1 to reference the new Appendix A</p> <p>7) Remove Normative statements no longer in CSD08 specification:</p> <p>8) Added Conformance statements in Section 4</p>
wd032	05/25/11	Mike Edwards	<p>1) Renumbered testcase section identifiers to match the Assembly spec</p> <p>2) Renumbered Test Assertion section headers to match Assembly spec</p> <p>3) Removed test assertions:</p>

			ASM-TA-14001 ASM-TA-14002 ASM-TA-14003 ASM-TA-14004 ASM-TA-12008 ASM-TA-12009 ASM-TA-12014 ASM-TA-12015 ASM-TA-12016 ASM-TA-12017 ASM-TA-12018 ASM-TA-12019 ASM-TA-12020 ASM-TA-12021 ASM-TA-12022 ASM-TA-12023 ASM-TA-12024 ASM-TA-12025 ASM-TA-12026 ASM-TA-12033 4) Added test assertions ASM-TA-11001 ASM-TA-11002 ASM-TA-11003 ASM-TA-14005
wd033	06/07/11	Mike Edwards	1) Removed ASM-TA-12033 since ASM12029 has been removed from the Assembly spec 2) Corrected relationship of ASM-TA-5007, ASM-TA-5008, ASM-TA-5009 to ASM50005 normative statement 3) Added cross reference table entries for ASM-TA-12036, ASM-TA-12037, ASM-TA-12038, ASM-TA-12039 4) Cleaned the Cross Reference tables to ensure that all entries are present and correct.
wd044	06/14/11	Mike Edwards	All changes accepted - clean copy
Revision	Date	Editor	Changes Made
17	2009-04-15	Mike Edwards	Section 4 testeases added
18	2009-04-16	Mike Edwards	Section 7 testeases added Tables of Artifacts added
19	05/04/09	Mike Edwards	Section 8, 9, 10 testeases added
20	05/06/09	Mike Edwards	Section 12 testeases added
21	05/06/09	Mike Edwards	Section 13, 14 testeases added. All sections now covered.
22	05/19/09	Mike Edwards	Most testeases converted to WSDL interfaces
23	06/02/09	Mike Edwards	Added Acknowledgements Added missing descriptions of artifacts Added extra testeases to cover previously untreated Test Assertions
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			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.
ed01_rev1	03/08/10	Mike Edwards	Issue 205 - deleted ASM_12001_TestCase Issue 165 - descriptions of ASM_8009_TestCase and ASM_8018_TestCase updated Issue 150 - marked ASM_8004_TestCase as language specific and removed from Assembly test suite (given to Java TC for their test suite)
ed01_rev2	03/10/10	Mike Edwards	Issue 172 - Added new testcase ASM_5038 and associated artifacts
ed01_rev3	04/12/10	Mike Edwards	Issue 159 - Testcases deleted, added and reassigned to align with latest CD of the Assembly specification Issue 154 Issue 155 Issue 161 Issue 162 Issue 163 Issue 164 Issue 165 Issue 166 Issue 167 Issue 168 Issue 169 Issue 170 Issue 171 Issue 172 - Added new testcase ASM_5038_TestCase Issue 173 Issue 174 Issue 184 Issue 185 Issue 186 Issue 190 Issue 191 Issue 193 Issue 196 Issue 197 Issue 198 Issue 199 Issue 202 Issue 205 Issue 207 Issue 208 Issue 209 Issue 216 Issue 219 Issue 226
ed01-Rev4	04/19/10	Mike Edwards	Issue 220 - Remove testcase ASM_6015 and associated artifacts (TestComposite29) Issue 224
ed01-Rev5	05/18/10	Mike Edwards	Issue 206 Issue 230

ed01-rev6	06/08/10	Bryan Aupperle	Editorial fixes to front matter including links and references
ed02	06/08/10	Mike Edwards	Create CD02- All changes accepted

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