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25 **Abstract:**

26 This document defines the TestCases for the SCA JMS Binding specification.

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

29 **Status:**

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34 Technical Committee members should send comments on this specification to the Technical
35 Committee's email list. Others should send comments to the Technical Committee by using the
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37 [open.org/committees/sca-bindings/](http://www.oasis-open.org/committees/sca-bindings/).

38 For information on whether any patents have been disclosed that may be essential to
39 implementing this specification, and any offers of patent licensing terms, please refer to the
40 Intellectual Property Rights section of the Technical Committee web page ([http://www.oasis-](http://www.oasis-open.org/committees/sca-bindings/ipr.php)
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1 Introduction

This document defines the TestCases for the SCA JMS Binding specification [\[SCA-JMS\]](#).

The tests described in this document are ~~related~~[derived from the normative statements in SCA JMS Binding specification via -to the](#) Test Assertions [which are described in the SCA JMS Binding Test assertions document \[JMS-TA\] Appendix A, "Test Assertions for the JMS Binding"](#).

1.1 TestCase Structure

The SCA JMS Binding test cases follow a standard structure. They are divided into two main parts:

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

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

JMS Test Client

The JMS Test Client is designed as a standalone Java application. The version built here is a Java application which uses the JUnit test framework.

The JMS Test Client is structured to contain configuration information about the testcase, which consists of:

1. metadata identifying the SCA 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 JMS Test Client consists of a base runtime class, BaseJMSTestCase.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 JMS 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 BaseJMSTestCase.

The JMS Test Client uses JMS to communicate with the SCA Test Application. Tests involve SCA services and references with JMS bindings, and possibly with bidirectional interfaces. Each SCA Test Application consists of one top level SCA Composite file and its associated artifacts (implementations, interface files), plus the JMS Test Client described above.

A typical test application has a design where the top level composite offers a single service to the JMS Test Client application over a JMS binding. The top level composite contains one component which offers the service that is used by the client application, and may have a single reference which invokes the JMS Test Client.

Test Artifacts Organization

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

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

Broadly, Contribution names are as follows:

- BJM_nnnnn - a contribution that is specific for a particular testcase, where "nnnnn" is the number of the testcase. Often this is required because a particular testcase involves artifacts that contain errors that are statically checkable - an SCA runtime is permitted to reject such artifacts when they are contributed and deployed and it is important to ensure that contributions containing deliberate errors for one testcase do not interfere with the operation of other testcases.
- BJM_nnnnn_Java - a contribution for a specific testcase where there is a need for language specific artifacts that relate to that testcase alone
- General - a shared contribution containing implementation type independent artifacts that can be used by many testcases.
- General_Java - a shared contribution containing implementation type dependent artifacts for Java POJOs. These artifacts can include both Java classes and also SCA composites that directly use Java classes..
- Contribution1, Contribution2, etc - contributions that are used by various testcases that are testing the handling of SCA contributions

1.2 Namespaces and Java Package Names

The SCA JMS Binding testcase suite makes use of some XML namespaces and Java package names, as follows:

SCA Artifact Namespaces

These apply to artifacts such as Composites

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

WSDL Namespace

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

Java Package name

For Java interface classes and for Java implementation classes

`org.oasisopen.sca.test`

1.3 Terminology

The keywords "MUST", "MUST NOT", "REQUIRED", "SHALL", "SHALL NOT", "SHOULD", "SHOULD NOT", "RECOMMENDED", "MAY", and "OPTIONAL" in this specification are to be interpreted as described in IETF RFC 2119 [RFC 2119].

1.4 Normative References

- [RFC 2119] S. Bradner. *Key words for use in RFCs to Indicate Requirement Levels*. IETF RFC 2119, March 1997.
<http://www.ietf.org/rfc/rfc2119.txt>
- [SCA-JMS] OASIS Committee Specification Draft 05, SCA JMS Binding Specification Version 1.1, November 2010 <http://docs.oasis-open.org/opencsa/sca-bindings/sca-jmsbinding-1.1-spec-csd05.pdf>
- [TA-GUIDE] OASIS Committee Draft 05, Test Assertions Guidelines Version 1.0, August 2010 <http://docs.oasis-open.org/tag/guidelines/v1.0/cd05/testassertionsguidelines-cd-05.pdf>
- [IETFJMS] M. Phillips, P. Adams, D. Rokicki, E. Johnson, *URI Scheme for Java™ Message Service 1.0* <http://tools.ietf.org/id/draft-merrick-jms-uri-12.txt>, IETF Internet-Draft January 20, 2011, pending publication of final approved version
- [JCA15] J2EE Connector Architecture Specification Version 1.5 <http://java.sun.com/j2ee/connector/>
- [JMS-TA] OASIS Committee Specification Draft 01, SCA JMS Binding Test Assertions, November 2010 <http://docs.oasis-open.org/opencsa/sca-bindings/sca-jmsbinding-1.1-test-assertions-1.0-csd01.pdf>

1.5 Non-normative References

N/A

2 TestCases

2.1 TestCases for JMS Bindings Specification Section 3

BJM_30001_TestCase

Testcase ID	BJM_30001_TestCase
Test Assertion	BJM-TA-30001
Description	Tests that the @uri attribute of a <binding.jms> element matches the syntax defined by the IETF URI Scheme for Java™ Message Service 1.0 [IETFJMS]
Artifacts	BJM_30001_TestCase.java Test_BJM_30001.composite TestInvocation.wsdl Service1.wsdl
Expected output	Negative test: “exception”

BJM_30002_1_TestCase

Testcase ID	BJM_30002_1_TestCase
Test Assertion	BJM-TA-30002
Description	Tests that when the @uri attribute is specified, the SCA runtime MUST raise an error if the referenced resources do not already exist This is the test for the destination does not exist
Artifacts	BJM_30002_1_TestCase.java Test_BJM_30002_1.composite TestInvocation.wsdl Service1.wsdl
Expected output	Negative test: “exception”

BJM_30002_2_TestCase

Testcase ID	BJM_30002_2_TestCase
Test Assertion	BJM-TA-30002
Description	Tests that when the @uri attribute is specified, the SCA runtime MUST raise an error if the referenced resources do not already exist This is the test for the connection factory does not exist
Artifacts	BJM_30002_2_TestCase.java Test_BJM_30002_2.composite

	TestInvocation.wsdl Service1.wsdl
Expected output	Negative test: "exception"

230

BJM_30003_TestCase

Testcase ID	BJM_30003_TestCase
Test Assertion	BJM-TA-30003
Description	Tests that when the @correlationScheme attribute is "sca:messageID" the SCA runtime MUST set the correlation ID of replies to the message ID of the corresponding request
Artifacts	BJM_3003_TestCase.java Test_BJM_3003.composite Service1.wsdl
Expected output	Positive test: "<?xml version='1.0' encoding='UTF-8'?'><return>service1 operation1 invoked with BJM_3003 request message</return>"

231

BJM_30004_TestCase

Testcase ID	BJM_30004_TestCase
Test Assertion	BJM-TA-30004
Description	Tests that the correlation ID of a reply message is set to the value of the correlation ID of the corresponding request message when a request/reply operation is invoked.
Artifacts	BJM_3004_TestCase.java Test_BJM_3004.composite Service1.wsdl
Expected output	Positive test: "<?xml version='1.0' encoding='UTF-8'?'><return>service1 operation1 invoked with BJM_3004 request message</return>"

232

BJM_30005_TestCase

Testcase ID	BJM_30005_TestCase
Test Assertion	BJM-TA-30005
Description	Tests that if the value of the @correlationScheme attribute is "sca:none" the SCA runtime MUST NOT set the correlation ID
Artifacts	BJM_3005_TestCase.java Test_BJM_3005.composite Service1.wsdl
Expected output	Positive test: "<?xml version='1.0' encoding='UTF-8'?'><return>service1 operation1 invoked

	with BJM_3005 request message</return>”
--	---

233 **BJM_30007_TestCase**

Testcase ID	BJM_30007_TestCase
Test Assertion	BJM-TA-30007
Description	Tests that the correlation ID of request messages are set to a non-null value when using the sca:correlationID correlation scheme on a reference.
Artifacts	BJM_3007_TestCase.java Test_BJM_3007.composite
Expected output	Positive test: “<?xml version=“1.0” encoding=“UTF-8”?><return>service1 operation1 invoked with BJM_3007 request message</return>”

234 **BJM_30011A_TestCase**

Testcase ID	BJM_30011A_TestCase
Test Assertion	BJM-TA-30011
Description	Tests when the @create attribute value for a destination, connectionFactory or activationSpec element is "always" and the @jndiName attribute is present and the resource cannot be created at the location specified by the @jndiName attribute then the SCA runtime MUST raise an error This test is for the activationSpec
Artifacts	BJM_3011A_TestCase.java Test_BJM_3011A.composite Service1.wsdl
Expected output	Negative test: “exception”

235 **BJM_30011C_TestCase**

Testcase ID	BJM_30011C_TestCase
Test Assertion	BJM-TA-30011
Description	Tests when the @create attribute value for a destination, connectionFactory or activationSpec element is "always" and the @jndiName attribute is present and the resource cannot be created at the location specified by the @jndiName attribute then the SCA runtime MUST raise an error This test is for the connectionFactory
Artifacts	BJM_3011C_TestCase.java Test_BJM_3011C.composite Service1.wsdl
Expected output	Negative test: “exception”

BJM_30011D_TestCase

Testcase ID	BJM_30011D_TestCase
Test Assertion	BJM-TA-30011
Description	Tests when the @create attribute value for a destination, connectionFactory or activationSpec element is "always" and the @jndiName attribute is present and the resource cannot be created at the location specified by the @jndiName attribute then the SCA runtime MUST raise an error This test is for the destination
Artifacts	BJM_3011D_TestCase.java Test_BJM_3011D.composite Service1.wsdl
Expected output	Negative test: "exception"

BJM_30012A_TestCase

Testcase ID	BJM_30012A_TestCase
Test Assertion	BJM-TA-30012
Description	Tests when the @create attribute value for a destination, connectionFactory or activationSpec element is "ifNotExist" then the @jndiName attribute MUST specify the location of the possibly existing resource This test is for the activationSpec
Artifacts	BJM_3012A_TestCase.java Test_BJM_3012A.composite Service1.wsdl
Expected output	Negative test: "exception"

BJM_30012C_TestCase

Testcase ID	BJM_30012C_TestCase
Test Assertion	BJM-TA-30012
Description	Tests when the @create attribute value for a destination, connectionFactory or activationSpec element is "ifNotExist" then the @jndiName attribute MUST specify the location of the possibly existing resource This test is for the connectionFactory
Artifacts	BJM_3012C_TestCase.java Test_BJM_3012C.composite Service1.wsdl
Expected output	Negative test: "exception"

239 **BJM_30012D_TestCase**

Testcase ID	BJM_30012D_TestCase
Test Assertion	BJM-TA-30012
Description	Tests when the @create attribute value for a destination, connectionFactory or activationSpec element is "ifNotExist" then the @jndiName attribute MUST specify the location of the possibly existing resource This test is for the destination
Artifacts	BJM_3012D_TestCase.java Test_BJM_3012D.composite Service1.wsdl
Expected output	Negative test: "exception"

240 **BJM_30014A_TestCase**

Testcase ID	BJM_30014A_TestCase
Test Assertion	BJM-TA-30014
Description	Tests when the @create attribute value for a destination, connectionFactory or activationSpec element is "ifNotExist" and the @jndiName attribute refers to an existing resource that is not a JMS Destination of the appropriate type, a JMS connection factory or a JMS activation spec respectively then the SCA runtime MUST raise an error This test is for the activationSpec
Artifacts	BJM_3014A_TestCase.java Test_BJM_3014A.composite Service1.wsdl
Expected output	Negative test: "exception"

241 **BJM_30014C_TestCase**

Testcase ID	BJM_30014C_TestCase
Test Assertion	BJM-TA-30014
Description	Tests when the @create attribute value for a destination, connectionFactory or activationSpec element is "ifNotExist" and the @jndiName attribute refers to an existing resource that is not a JMS Destination of the appropriate type, a JMS connection factory or a JMS activation spec respectively then the SCA runtime MUST raise an error This test is for the connectionFactory
Artifacts	BJM_3014C_TestCase.java Test_BJM_3014C.composite Service1.wsdl
Expected output	Negative test:

	"exception"
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242 **BJM_30014D_TestCase**

Testcase ID	BJM_30014D_TestCase
Test Assertion	BJM-TA-30014
Description	Tests when the @create attribute value for a destination, connectionFactory or activationSpec element is "ifNotExist" and the @jndiName attribute refers to an existing resource that is not a JMS Destination of the appropriate type, a JMS connection factory or a JMS activation spec respectively then the SCA runtime MUST raise an error This test is for the destination
Artifacts	BJM_3014D_TestCase.java Test_BJM_3014D.composite Service1.wsdl
Expected output	Negative test: "exception"

243 **BJM_30015Aa_TestCase**

Testcase ID	BJM_30015Aa_TestCase
Test Assertion	BJM-TA-30015
Description	Tests when the @create attribute value for a destination, connectionFactory or activationSpec element is "never" and the @jndiName attribute is not specified, or the resource is not present at the location identified by the @jndiName attribute, or the location refers to a resource of an incorrect type then the SCA runtime MUST raise an error This test is for activationspec and no @jndiName
Artifacts	BJM_3015Aa_TestCase.java Test_BJM_30145Aa.composite Service1.wsdl
Expected output	Negative test: "exception"

244 **BJM_30015Ab_TestCase**

Testcase ID	BJM_30015Ab_TestCase
Test Assertion	BJM-TA-30015
Description	Tests when the @create attribute value for a destination, connectionFactory or activationSpec element is "never" and the @jndiName attribute is not specified, or the resource is not present at the location identified by the @jndiName attribute, or the location refers to a resource of an incorrect type then the SCA runtime MUST raise an error This test is for activationspec and resource not present
Artifacts	BJM_3015Ab_TestCase.java

	Test_BJM_30145Ab.composite Service1.wsdl
Expected output	Negative test: "exception"

245 **BJM_30015Ac_TestCase**

Testcase ID	BJM_30015Ac_TestCase
Test Assertion	BJM-TA-30015
Description	Tests when the @create attribute value for a destination, connectionFactory or activationSpec element is "never" and the @jndiName attribute is not specified, or the resource is not present at the location identified by the @jndiName attribute, or the location refers to a resource of an incorrect type then the SCA runtime MUST raise an error This test is for activationspec and resource wrong type
Artifacts	BJM_3015Ac_TestCase.java Test_BJM_30145Ac.composite Service1.wsdl
Expected output	Negative test: "exception"

246 **BJM_30015Ca_TestCase**

Testcase ID	BJM_30015Ca_TestCase
Test Assertion	BJM-TA-30015
Description	Tests when the @create attribute value for a destination, connectionFactory or activationSpec element is "never" and the @jndiName attribute is not specified, or the resource is not present at the location identified by the @jndiName attribute, or the location refers to a resource of an incorrect type then the SCA runtime MUST raise an error This test is for connectionFactory and no @jndiName
Artifacts	BJM_3015Ca_TestCase.java Test_BJM_30145Ca.composite Service1.wsdl
Expected output	Negative test: "exception"

247 **BJM_30015Cb_TestCase**

Testcase ID	BJM_30015Cb_TestCase
Test Assertion	BJM-TA-30015
Description	Tests when the @create attribute value for a destination, connectionFactory or activationSpec element is "never" and the @jndiName attribute is not specified, or the resource is not present at the location identified by the @jndiName attribute, or the location refers to a resource of an incorrect type then the SCA runtime MUST

	raise an error This test is for connectionFactory and resource not present
Artifacts	BJM_3015Cb_TestCase.java Test_BJM_30145Cb.composite Service1.wsdl
Expected output	Negative test: "exception"

248 **BJM_30015Cc_TestCase**

Testcase ID	BJM_30015Cc_TestCase
Test Assertion	BJM-TA-30015
Description	Tests when the @create attribute value for a destination, connectionFactory or activationSpec element is "never" and the @jndiName attribute is not specified, or the resource is not present at the location identified by the @jndiName attribute, or the location refers to a resource of an incorrect type then the SCA runtime MUST raise an error This test is for connectionFactory and resource wrong type
Artifacts	BJM_3015Cc_TestCase.java Test_BJM_30145Cc.composite Service1.wsdl
Expected output	Negative test: "exception"

249 **BJM_30015Da_TestCase**

Testcase ID	BJM_30015Da_TestCase
Test Assertion	BJM-TA-30015
Description	Tests when the @create attribute value for a destination, connectionFactory or activationSpec element is "never" and the @jndiName attribute is not specified, or the resource is not present at the location identified by the @jndiName attribute, or the location refers to a resource of an incorrect type then the SCA runtime MUST raise an error This test is for destination and no @jndiName
Artifacts	BJM_3015Da_TestCase.java Test_BJM_30145Da.composite Service1.wsdl
Expected output	Negative test: "exception"

250 **BJM_30015Db_TestCase**

Testcase ID	BJM_30015Db_TestCase
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Test Assertion	BJM-TA-30015
Description	Tests when the @create attribute value for a destination, connectionFactory or activationSpec element is "never" and the @jndiName attribute is not specified, or the resource is not present at the location identified by the @jndiName attribute, or the location refers to a resource of an incorrect type then the SCA runtime MUST raise an error This test is for destination and resource not present
Artifacts	BJM_3015Db_TestCase.java Test_BJM_30145Db.composite Service1.wsdl
Expected output	Negative test: "exception"

251 **BJM_30015Dc_TestCase**

Testcase ID	BJM_30015Dc_TestCase
Test Assertion	BJM-TA-30015
Description	Tests when the @create attribute value for a destination, connectionFactory or activationSpec element is "never" and the @jndiName attribute is not specified, or the resource is not present at the location identified by the @jndiName attribute, or the location refers to a resource of an incorrect type then the SCA runtime MUST raise an error This test is for destination and resource wrong type
Artifacts	BJM_3015Dc_TestCase.java Test_BJM_3015Dc.composite Service1.wsdl
Expected output	Negative test: "exception"

252 **BJM_30017_TestCase**

Testcase ID	BJM_30017_TestCase
Test Assertion	BJM-TA-30017
Description	Tests that a binding.jms element MUST NOT include both a connectionFactory element and an activationSpec element
Artifacts	BJM_3017_TestCase.java Test_BJM_3017.composite Service1.wsdl
Expected output	Negative test: "exception"

253 **BJM_30018_TestCase**

Testcase ID	BJM_30018_TestCase
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Test Assertion	BJM-TA-30018
Description	Tests when the connectionFactory element is present, then the destination MUST be defined either by the destination element or the @uri attribute
Artifacts	BJM_3018_TestCase.java Test_BJM_3018.composite Service1.wsdl
Expected output	Negative test: "exception"

254 **BJM_30020_TestCase**

Testcase ID	BJM_30020_TestCase
Test Assertion	BJM-TA-30020
Description	Tests that the activationSpec element MUST NOT be present when the binding is being used for an SCA reference
Artifacts	BJM_3020_TestCase.java Test_BJM_3020.composite Service1.wsdl
Expected output	Negative test: "exception"

255 **BJM_30021_TestCase**

Testcase ID	BJM_30021_TestCase
Test Assertion	BJM-TA-30021
Description	Tests that a response element MUST NOT include both a connectionFactory element and an activationSpec element
Artifacts	BJM_3021_TestCase.java Test_BJM_3021.composite Service1.wsdl
Expected output	Negative test: "exception"

256 **BJM_30023_TestCase**

Testcase ID	BJM_30023_TestCase
Test Assertion	BJM-TA-30023
Description	Tests that the response/activationSpec element MUST NOT be present when the binding is being used for an SCA service
Artifacts	BJM_3023_TestCase.java Test_BJM_3023.composite Service1.wsdl

Expected output	Negative test: "exception"
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257

BJM_30024_1_TestCase

Testcase ID	BJM_30024_1_TestCase
Test Assertion	BJM-TA-30024
Description	<p>Tests when sending messages for a JMS binding, the SCA runtime MUST set each of the JMSType, JMSDeliveryMode, JMSTimeToLive and JMSPriority headers to values specified in the binding definition in the following priority order:</p> <ol style="list-style-type: none"> 1) the value for the header specified in the @uri attribute (highest priority); 2) the value for the header specified in the operationProperties/headers element matching the operation being invoked; 3) the value for the header specified in the headers element; 4) the default value for the header as specified by the definition of the binding.jms/headers element (lowest priority) <p>This is the URI case</p>
Artifacts	BJM_3024_1_TestCase.java Test_BJM_3024_1.composite Service1.wsdl
Expected output	Positive test: <pre><?xml version="1.0" encoding="UTF-8"?><arg0>service1 operation1 invoked with BJM_3024 request message</arg0></pre>

258

BJM_30024_2_TestCase

Testcase ID	BJM_30024_2_TestCase
Test Assertion	BJM-TA-30024
Description	<p>Tests when sending messages for a JMS binding, the SCA runtime MUST set each of the JMSType, JMSDeliveryMode, JMSTimeToLive and JMSPriority headers to values specified in the binding definition in the following priority order:</p> <ol style="list-style-type: none"> 1) the value for the header specified in the @uri attribute (highest priority); 2) the value for the header specified in the operationProperties/headers element matching the operation being invoked; 3) the value for the header specified in the headers element; 4) the default value for the header as specified by the definition of the binding.jms/headers element (lowest priority) <p>This is the operationProperties case</p>
Artifacts	BJM_3024_2_TestCase.java Test_BJM_3024_2.composite Service1.wsdl
Expected output	Positive test:

	"<?xml version="1.0" encoding="UTF-8"?><arg0>service1 operation1 invoked with BJM_3024 request message</arg0>"
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259

BJM_30024_3_TestCase

Testcase ID	BJM_30024_3_TestCase
Test Assertion	BJM-TA-30024
Description	<p>Tests when sending messages for a JMS binding, the SCA runtime MUST set each of the JMSType, JMSDeliveryMode, JMSTimeToLive and JMSPriority headers to values specified in the binding definition in the following priority order:</p> <ol style="list-style-type: none"> 1) the value for the header specified in the @uri attribute (highest priority); 2) the value for the header specified in the operationProperties/headers element matching the operation being invoked; 3) the value for the header specified in the headers element; 4) the default value for the header as specified by the definition of the binding.jms/headers element (lowest priority) <p>This is the header case</p>
Artifacts	<p>BJM_3024_3_TestCase.java</p> <p>Test_BJM_3024_3.composite</p> <p>Service1.wsdl</p>
Expected output	<p>Positive test:</p> <p>"<?xml version="1.0" encoding="UTF-8"?><arg0>service1 operation1 invoked with BJM_3024 request message</arg0>"</p>

260

BJM_30024_4_TestCase

Testcase ID	BJM_30024_4_TestCase
Test Assertion	BJM-TA-30024
Description	<p>Tests when sending messages for a JMS binding, the SCA runtime MUST set each of the JMSType, JMSDeliveryMode, JMSTimeToLive and JMSPriority headers to values specified in the binding definition in the following priority order:</p> <ol style="list-style-type: none"> 1) the value for the header specified in the @uri attribute (highest priority); 2) the value for the header specified in the operationProperties/headers element matching the operation being invoked; 3) the value for the header specified in the headers element; 4) the default value for the header as specified by the definition of the binding.jms/headers element (lowest priority) <p>This is the default case</p>
Artifacts	<p>BJM_3024_4_TestCase.java</p> <p>Test_BJM_3024_4.composite</p> <p>Service1.wsdl</p>
Expected output	Positive test:

	"<?xml version="1.0" encoding="UTF-8"?><arg0>service1 operation1 invoked with BJM_3024 request message</arg0>"
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261

BJM_30025_1_TestCase

Testcase ID	BJM_30025_1_TestCase
Test Assertion	BJM-TA-30025
Description	<p>Tests when sending messages for a JMS binding, the SCA runtime MUST set each named user property with type and value specified in the binding definition in the following priority order:</p> <ol style="list-style-type: none"> 1) the type and value for the named user property specified in an operationProperties/headers/property element matching the name of the operation being invoked (highest priority); 2) the type and value for the named user property specified in a headers/property element (lowest priority) <p>This is the operationProperties case</p>
Artifacts	BJM_3025_1_TestCase.java Test_BJM_3025_1.composite Service1.wsdl
Expected output	Positive test: "<?xml version="1.0" encoding="UTF-8"?><arg0>service1 operation1 invoked with BJM_3025 request message</arg0>"

262

BJM_30025_2_TestCase

Testcase ID	BJM_30025_2_TestCase
Test Assertion	BJM-TA-30025
Description	<p>Tests when sending messages for a JMS binding, the SCA runtime MUST set each named user property with type and value specified in the binding definition in the following priority order:</p> <ol style="list-style-type: none"> 1) the type and value for the named user property specified in an operationProperties/headers/property element matching the name of the operation being invoked (highest priority); 2) the type and value for the named user property specified in a headers/property element (lowest priority) <p>This is the headers case</p>
Artifacts	BJM_3025_2_TestCase.java Test_BJM_3025_2.composite Service1.wsdl
Expected output	Positive test: "<?xml version="1.0" encoding="UTF-8"?><arg0>service1 operation1 invoked with BJM_3025 request message</arg0>"

BJM_30026_1_TestCase

Testcase ID	BJM_30026_1_TestCase
Test Assertion	BJM-TA-30026
Description	<p>Tests when receiving messages for a JMS binding, the SCA runtime MUST use a message selector if specified in the binding definition in the following priority order:</p> <ol style="list-style-type: none"> 1) the value for the message selector specified in the @uri attribute value's "selector" parameter (highest priority); 2) the value for the message selector specified in the messageSelection/@selector attribute; 3) otherwise no message selector is used (lowest priority) <p>This is the @uri case</p>
Artifacts	BJM_3026_1_TestCase.java Test_BJM_3026_1.composite Service1.wsdl
Expected output	Positive test: <pre><?xml version="1.0" encoding="UTF-8"?><return>service1 operation1 invoked with BJM_3026 type1 message</return></pre>

BJM_30026_2_TestCase

Testcase ID	BJM_30026_2_TestCase
Test Assertion	BJM-TA-30026
Description	<p>Tests when receiving messages for a JMS binding, the SCA runtime MUST use a message selector if specified in the binding definition in the following priority order:</p> <ol style="list-style-type: none"> 1) the value for the message selector specified in the @uri attribute value's "selector" parameter (highest priority); 2) the value for the message selector specified in the messageSelection/@selector attribute; 3) otherwise no message selector is used (lowest priority) <p>This is the messageSelection case</p>
Artifacts	BJM_3026_2_TestCase.java Test_BJM_3026_2.composite Service1.wsdl
Expected output	Positive test: <pre><?xml version="1.0" encoding="UTF-8"?><return>service1 operation1 invoked with BJM_3026 type1 message</return></pre>

BJM_30026_3_TestCase

Testcase ID	BJM_30026_3_TestCase
Test Assertion	BJM-TA-30026

Description	<p>Tests when receiving messages for a JMS binding, the SCA runtime MUST use a message selector if specified in the binding definition in the following priority order:</p> <ol style="list-style-type: none"> 1) the value for the message selector specified in the @uri attribute value's "selector" parameter (highest priority); 2) the value for the message selector specified in the messageSelection/@selector attribute; 3) otherwise no message selector is used (lowest priority) <p>This is the default case</p>
Artifacts	<p>BJM_3026_3_TestCase.java</p> <p>Test_BJM_3026_3.composite</p> <p>Service1.wsdl</p>
Expected output	<p>Positive test:</p> <p>"<?xml version='1.0' encoding='UTF-8'?'><return>service1 operation1 invoked with BJM_3026 request message</return>"</p>

266 BJM_30029_TestCase

Testcase ID	BJM_30029_TestCase
Test Assertion	BJM-TA-30029
Description	Tests that the value of the operationProperties/@selectedOperation attribute MUST be unique across the containing binding.jms element
Artifacts	<p>BJM_3029_TestCase.java</p> <p>Test_BJM_3029.composite</p> <p>Service1.wsdl</p>
Expected output	<p>Negative test:</p> <p>"exception"</p>

267 BJM_30031_TestCase

Testcase ID	BJM_30031_TestCase
Test Assertion	BJM-TA-30031
Description	Tests that the resourceAdapter element MUST be present when JMS resources are to be created for a JMS provider that implements the JCA 1.5 Specification JCA15 JCA15 specification, and is ignored otherwise
Artifacts	<p>BJM_3031_TestCase.java</p> <p>Test_BJM_3031.composite</p> <p>Service1.wsdl</p>
Expected output	<p>Positive test:</p> <p>"<?xml version='1.0' encoding='UTF-8'?'><return>service1 operation1 invoked with BJM_3031 request message</return>"</p>

268 **BJM_30034_TestCase**

Testcase ID	BJM_30034_TestCase
Test Assertion	BJM-TA-30034
Description	Tests when the @uri attribute is specified, the destination element MUST NOT be present
Artifacts	BJM_3034_TestCase.java Test_BJM_3034.composite Service1.wsdl
Expected output	Negative test: "exception"

269 **BJM_30036_TestCase**

Testcase ID	BJM_30036_TestCase
Test Assertion	BJM-TA-30036
Description	Tests that the binding.jms element MUST conform to the XML schema defined in sca-bindingjms-1.1.xsd
Artifacts	BJM_3036_TestCase.java Test_BJM_3036.composite Service1.wsdl
Expected output	Negative test: "exception"

270 **2.2 TestCases for JMS Bindings Specification Section 4**271 **BJM_40001_TestCase**

Testcase ID	BJM_40001D_TestCase
Test Assertion	BJM-TA-40001
Description	Tests The SCA runtime MUST support the default JMS wire format and operation selector behavior, and MAY provide additional means to override it
Artifacts	BJM_4001_TestCase.java Test_BJM_4001.composite Service1.wsdl
Expected output	Positive test: "<?xml version='1.0' encoding='UTF-8'><return>service1 operation1 invoked with BJM_4001 request message</return>"

272 **BJM_40002_1_TestCase**

Testcase ID	BJM_40002_1_TestCase
Test Assertion	BJM-TA-40002

Description	<p>Tests if operationSelector.jmsDefault is used if no operationSelector element is specified</p> <p>This tests if there is only one operation on the service's interface, then that operation is the selected operation name</p>
Artifacts	<p>BJM_4002_TestCase.java</p> <p>Test_BJM_4002.composite</p> <p>TestComposite21.composite</p> <p>Service1.wsdl</p>
Expected output	<p>Positive test:</p> <p>"<?xml version="1.0" encoding="UTF-8"?><return>service1 operation1 invoked with BJM_4002_1 request message</return>"</p>

273 **BJM_40002_2_TestCase**

Testcase ID	BJM_40002_2_TestCase
Test Assertion	BJM-TA-40002
Description	<p>Tests if operationSelector.jmsDefault is used if no operationSelector element is specified</p> <p>This tests when more than one operation in the interface; the JMS user property "scaOperationName" is present and the value of that user property is used as the selected operation name</p>
Artifacts	<p>BJM_4002__2_TestCase.java</p> <p>Test_BJM_4002.composite</p> <p>TestComposite21.composite</p> <p>Service2.wsdl</p>
Expected output	<p>Positive test:</p> <p>"<?xml version="1.0" encoding="UTF-8"?><return>service2 operation2 invoked with BJM_4002_2 request message</return>"</p>

274 **BJM_40002_3_TestCase**

Testcase ID	BJM_40002_3_TestCase
Test Assertion	BJM-TA-40002
Description	<p>Tests if operationSelector.jmsDefault is used if no operationSelector element is specified</p> <p>This tests when more than one operation in the interface; no scaOperationName user property; the message is a JMS text or bytes message containing XML, and the selected operation name is the local name of the root element of the XML payload.</p>
Artifacts	<p>BJM_4002_3_TestCase.java</p> <p>Test_BJM_4002.composite</p> <p>TestComposite21.composite</p> <p>Service2.wsdl</p>

Expected output	Positive test: <pre><?xml version="1.0" encoding="UTF-8"?><return>service2 operation2 invoked with BJM_4002 request message</return></pre>
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275 **BJM_40002_4_TestCase**

Testcase ID	BJM_40002_4_TestCase
Test Assertion	BJM-TA-40002
Description	Tests if operationSelector.jmsDefault is used if no operationSelector element is specified This tests when more than one operation in the interface; no scaOperationName user property; no top-level XML element in the message body matching an operation name; the selected operation name is "onMessage"
Artifacts	BJM_4002_4_TestCase.java Test_BJM_4002.composite TestComposite21.composite Service5.wsdl
Expected output	Positive test: <pre><?xml version="1.0" encoding="UTF-8"?><return>service5 onMessage invoked with BJM_4002_4 request message</return></pre>

276 **BJM_40003_TestCase**

Testcase ID	BJM_40003_TestCase
Test Assertion	BJM-TA-40003
Description	Tests when using the default wire format to send request messages, if there is a single parameter and the interface includes more than one operation, the SCA runtime MUST set the JMS user property "scaOperationName" to the name of the operation being invoked
Artifacts	BJM_4003_TestCase.java Test_BJM_4003.composite
Expected output	Positive test: <pre><?xml version="1.0" encoding="UTF-8"?><return>Service2Impl2.operation1 service1 operation1 invoked with BJM_4003 request message</return></pre>

277 **BJM_40004_TestCase**

Testcase ID	BJM_40004_TestCase
Test Assertion	BJM-TA-40004
Description	Tests if no wireFormat element is specified in a JMS binding then SCA runtimes MUST use wireFormat.jmsDefault as the default
Artifacts	BJM_4004_TestCase.java Test_BJM_4004.composite TestComposite1.composite

	Service1.wsdl
Expected output	Negative test: "exception"

278 **BJM_40004_2_TestCase**

Testcase ID	BJM_40004_2_TestCase
Test Assertion	BJM-TA-40004
Description	Tests if no wireFormat element is specified in a JMS binding then SCA runtimes MUST use wireFormat.jmsDefault as the default
Artifacts	BJM_4004_2_TestCase.java Test_BJM_4004.composite TestComposite1.composite Service1.wsdl
Expected output	Positive test: "<?xml version='1.0' encoding='UTF-8'?><return>service1 operation1 invoked with BJM_4004 request message</return>"

279 **BJM_40005T_TestCase**

Testcase ID	BJM_40005T_TestCase
Test Assertion	BJM-TA-40005
Description	Tests When using the default wire format an SCA runtime MUST be able to receive both JMS text and bytes messages This is the Text message test
Artifacts	BJM_4005T_TestCase.java Test_BJM_4005.composite TestComposite1.composite Service1.wsdl
Expected output	Positive test: "<?xml version='1.0' encoding='UTF-8'?><return>service1 operation1 invoked with BJM_4005 request message</return>"

280 **BJM_40005B_TestCase**

Testcase ID	BJM_40005B_TestCase
Test Assertion	BJM-TA-40005
Description	Tests When using the default wire format an SCA runtime MUST be able to receive both JMS text and bytes messages This is the Bytes message test
Artifacts	BJM_4005B_TestCase.java Test_BJM_4005.composite

	TestComposite1.composite Service1.wsdl
Expected output	Positive test: “<?xml version="1.0" encoding="UTF-8"?><return>service1 operation1 invoked with BJM_4005 request message</return>”

281 **BJM_40006_TestCase**

Testcase ID	BJM_40006_TestCase
Test Assertion	BJM-TA-40006
Description	Tests when using the default wire format an SCA runtime MUST send either a JMS text or a JMS bytes message
Artifacts	BJM_4006_TestCase.java Test_BJM_4006.composite TestComposite34.composite Service3.wsdl
Expected output	Positive test: “Reply message is BytesMessage or TextMessage”

282 **BJM_40008_TestCase**

Testcase ID	BJM_40008_TestCase
Test Assertion	BJM-TA-40008
Description	Tests when a binding.jms element specifies the operationSelector.jmsDefault element, the SCA runtime MUST use the default operation selection algorithm to determine the selected operation
Artifacts	BJM_4008_TestCase.java Test_BJM_4008.composite TestComposite21.composite Service2.wsdl
Expected output	Positive test: “<?xml version="1.0" encoding="UTF-8"?><return>service2 operation2 invoked with BJM_4008 request message</return>”

283 **BJM_40009_TestCase**

Testcase ID	BJM_40009_TestCase
Test Assertion	BJM-TA-40009
Description	Tests when a binding.jms element specifies the wireFormat.jmsDefault element, the SCA runtime MUST use the default wire format
Artifacts	BJM_4009_TestCase.java Test_BJM_4009.composite TestComposite1.composite

	Service1.wsdl
Expected output	Positive test: “<?xml version="1.0" encoding="UTF-8"?><return>service1 operation1 invoked with BJM_4009 request message</return>”

284 **BJM_40010_TestCase**

Testcase ID	BJM_40010_TestCase
Test Assertion	BJM-TA-40010
Description	Tests when a message is received at an SCA service with JMS binding and the resolved operation name is in the target component's interface, the SCA runtime MUST invoke the target component using the resolved operation name
Artifacts	BJM_4010_TestCase.java Test_BJM_4010.composite TestComposite21.composite Service2.wsdl
Expected output	Positive test: “<?xml version="1.0" encoding="UTF-8"?><return>service2 operation2 invoked with BJM_4010 request message</return>”

285 **BJM_40011_TestCase**

Testcase ID	BJM_40011_TestCase
Test Assertion	BJM-TA-40011
Description	Tests when a message is received at an SCA service with JMS binding and the resolved operation name is not in the target component's interface the SCA runtime MUST raise an error
Artifacts	BJM_4011_TestCase.java Test_BJM_4011.composite TestComposite21.composite Service2.wsdl
Expected output	Negative test: “exception”

286 **2.3 TestCases for JMS Bindings Specification Section 5**

287 **BJM_50001_TestCase**

Testcase ID	BJM_50001_TestCase
Test Assertion	BJM-TA-50001
Description	Tests that the JMS binding implementations MUST support the JMS intent
Artifacts	BJM_5001_TestCase.java Test_BJM_5001.composite

	TestComposite1.composite Service1.wsdl
Expected output	Positive test: “<?xml version="1.0" encoding="UTF-8"?><return>service1 operation1 invoked with BJM_5001 request message</return>”

288 **BJM_60002_TestCase**

Testcase ID	BJM_60002_TestCase
Test Assertion	BJM-TA-60002
Description	Tests that for an SCA service with a JMS binding and unidirectional interface, when a request message is received as part of a one-way MEP, the SCA runtime MUST ignore the JMSReplyTo destination header in the JMS message, and not raise an error
Artifacts	BJM_6002_TestCase.java Test_BJM_6002.composite TestComposite34.composite Service3.wsdl
Expected output	Positive test: “<?xml version="1.0" encoding="UTF-8"?><arg0>service3 operation1 invoked with BJM_6002 request message</arg0>”

289 **2.4 TestCases for JMS Bindings Specification Section 6**

290 **BJM_60003_1_TestCase**

Testcase ID	BJM_60003_1_TestCase
Test Assertion	BJM-TA-60003
Description	Tests that for an SCA reference with a JMS binding that has a destination specified via the response element, the SCA runtime MUST receive response messages as defined by the binding's @correlationScheme attribute. This is the test for the messageID correlation scheme
Artifacts	BJM_6003_1_TestCase.java Test_BJM_6003.composite Service1.wsdl TestComposite1.composite TestInvocation.wsdl
Expected output	Positive test: “<?xml version="1.0" encoding="UTF-8"?><return>service1 operation1 invoked service1 operation1 invoked with BJM_6003_1 request message</return>”

291 **BJM_60003_2_TestCase**

Testcase ID	BJM_60003_2_TestCase
Test Assertion	BJM-TA-60003
Description	Tests that for an SCA reference with a JMS binding that has a destination specified via the response element, the SCA runtime MUST receive response messages as defined by the binding's @correlationScheme attribute. This is the test for the correlationID correlation scheme
Artifacts	BJM_6003_2_TestCase.java Test_BJM_6003.composite Service1.wsdl TestComposite1.composite TestInvocation.wsdl
Expected output	Positive test: “<?xml version=“1.0” encoding=“UTF-8”?><return>service1 operation1 invoked service1 operation1 invoked with BJM_6003_2 request message</return>”

292 **BJM_60003_3_TestCase**

Testcase ID	BJM_60003_3_TestCase
Test Assertion	BJM-TA-60003
Description	Tests that for an SCA reference with a JMS binding that has a destination specified via the response element, the SCA runtime MUST receive response messages as defined by the binding's @correlationScheme attribute. This is the test for the none correlation scheme
Artifacts	BJM_6003_3_TestCase.java Test_BJM_6003.composite Service1.wsdl TestComposite1.composite TestInvocation.wsdl
Expected output	Positive test: “<?xml version=“1.0” encoding=“UTF-8”?><return>service1 operation1 invoked service1 operation1 invoked with BJM_6003_3 request message</return>”

293 **BJM_60004_TestCase**

Testcase ID	BJM_60004_TestCase
Test Assertion	BJM-TA-60004
Description	Tests that for an SCA reference with a JMS binding, when a request message is sent as part of a request/response MEP, and the JMS binding has a response element with a destination defined, then the SCA runtime MUST use that destination for the JMSReplyTo header in the JMS message it creates for the request
Artifacts	BJM_6004_TestCase.java

	Test_BJM_6004.composite
Expected output	Positive test: "JMSReplyTo is as expected"

294 **BJM_60005_TestCase**

Testcase ID	BJM_60005_TestCase
Test Assertion	BJM-TA-60005
Description	Tests that for an SCA reference with a JMS binding, when a request message is sent as part of a request/response MEP, and the JMS binding does not have a response element with a destination defined, the SCA runtime MUST provide an appropriate destination on which to receive response messages and use that destination for the JMSReplyTo header in the JMS message it creates for the request
Artifacts	BJM_6005_TestCase.java Test_BJM_6005.composite
Expected output	Positive test: "JMSReplyTo is set"

295 **BJM_60007_TestCase**

Testcase ID	BJM_60007_TestCase
Test Assertion	BJM-TA-60007
Description	Tests that for an SCA service with a JMS binding, when a response message is sent as part of a request/response MEP where the request message included a non-null JMSReplyTo destination, the SCA runtime MUST send the response message to that destination
Artifacts	BJM_6007_TestCase.java Test_BJM_6007.composite Service1.wsdl TestComposite1.composite
Expected output	Positive test: "<?xml version='1.0' encoding='UTF-8'><return>service1 operation1 invoked with BJM_6007 request message</return>"

296 **BJM_60007_2_TestCase**

Testcase ID	BJM_60007_2_TestCase
Test Assertion	BJM-TA-60007
Description	Tests that for an SCA service with a JMS binding, when a response message is sent as part of a request/response MEP where the request message included a non-null JMSReplyTo destination, the SCA runtime MUST send the response message to that destination This is the case where the service binding includes a response destination, which should be ignored as the JMSReplyTo should be used.
Artifacts	BJM_6007_2_TestCase.java

	Test_BJM_6007.composite Service1.wsdl TestComposite1.composite
Expected output	Positive test: “<?xml version="1.0" encoding="UTF-8"?><return>service1 operation1 invoked with BJM_6007 request message</return>”

297 BJM_60008_TestCase

Testcase ID	BJM_60008_TestCase
Test Assertion	BJM-TA-60008
Description	Tests that for an SCA service with a JMS binding, when a response message is sent as part of a request/response MEP where the request message included a null JMSReplyTo destination and the JMS binding includes a response/destination element the SCA runtime MUST send the response message to that destination
Artifacts	BJM_6008_TestCase.java Test_BJM_6008.composite TestComposite1.composite Service1.wsdl
Expected output	Positive test: “<?xml version="1.0" encoding="UTF-8"?><return>service1 operation1 invoked with BJM_6008 request message</return>”

298 BJM_60011_TestCase

Testcase ID	BJM_60011_TestCase
Test Assertion	BJM-TA-60011
Description	Tests that for an SCA reference with a JMS binding and a bidirectional interface, when a request message is sent as part of a request/response MEP the SCA runtime MUST set the scaCallbackDestination user property in the message it creates to a JMS URI string, in the format defined by the IETF URI Scheme for Java Message Service 1.0 [IETFJMS] [IETFJMS] , that identifies the destination to which callback messages are to be sent
Artifacts	BJM_6011_TestCase.java Test_BJM_6011.composite Service3Impl3.java
Expected output	Positive test: “scaCallbackDestination property is a jms URI”

299 BJM_60012_TestCase

Testcase ID	BJM_60012_TestCase
Test Assertion	BJM-TA-60012
Description	Tests that for an SCA reference with a JMS binding and bidirectional interface, when

	a request message is sent as part of a one-way MEP the SCA runtime MUST set the destination to which callback messages are to be sent as the JMSReplyTo destination in the message it creates
Artifacts	BJM_6012_TestCase.java Test_BJM_6012.composite Service3Impl4.java
Expected output	Positive test: “JMSReplyTo is set”

300 **BJM_60013_TestCase**

Testcase ID	BJM_60013_TestCase
Test Assertion	BJM-TA-60013
Description	Tests that for an SCA reference with a JMS binding and bidirectional interface, when a request message is sent as part of a request/response MEP, the SCA runtime MUST set the JMSReplyTo header in the message it creates as described in section 6.2
Artifacts	BJM_6013_TestCase.java Test_BJM_6013.composite Service3Impl3.java
Expected output	Positive test: “JMSReplyTo header is set”

301 **BJM_60013_2_TestCase**

Testcase ID	BJM_60013_2_TestCase
Test Assertion	BJM-TA-60013
Description	Tests that for an SCA reference with a JMS binding and bidirectional interface, when a request message is sent as part of a request/response MEP, the SCA runtime MUST set the JMSReplyTo header in the message it creates as described in section 6.2
Artifacts	BJM_6013_2_TestCase.java Test_BJM_6013_2.composite Service3Impl3.java
Expected output	Positive test: “JMSReplyTo header is set as expected”

302 **BJM_60014_1_1_TestCase**

Testcase ID	BJM_60014_1_1_TestCase
Test Assertion	BJM-TA-60014
Description	Tests that for an SCA reference with a JMS binding and bidirectional interface, the SCA runtime MUST identify the callback destination from the reference's callback service binding if present, or supply a suitable callback destination if not present

	This is the test for the destination defined on the callback binding using a uri attribute
Artifacts	BJM_6014_1_1_TestCase.java Test_BJM_6014_1_1.composite Service3Impl3.java
Expected output	Positive test: "scaCallbackDestination property is a jms URI"

303 **BJM_60014_1_2_TestCase**

Testcase ID	BJM_60014_1_2_TestCase
Test Assertion	BJM-TA-60014
Description	Tests that for an SCA reference with a JMS binding and bidirectional interface, the SCA runtime MUST identify the callback destination from the reference's callback service binding if present, or supply a suitable callback destination if not present This is the case where the callback destination is specified on the binding by a destination element
Artifacts	BJM_6014_1_2_TestCase.java Test_BJM_6014_1_2.composite Service3Impl3.java
Expected output	Positive test: "scaCallbackDestination property is a jms URI"

304 **BJM_60014_2_TestCase**

Testcase ID	BJM_60014_2_TestCase
Test Assertion	BJM-TA-60014
Description	Tests that for an SCA reference with a JMS binding and bidirectional interface, the SCA runtime MUST identify the callback destination from the reference's callback service binding if present, or supply a suitable callback destination if not present This is the test for the destination defined on the callback binding using a <destination> element
Artifacts	BJM_6014_2_TestCase.java Test_BJM_6014_2.composite Service3Impl3.java
Expected output	Positive test: "scaCallbackDestination property is a jms URI"

305 **BJM_60015_1_TestCase**

Testcase ID	BJM_60015_1_TestCase
Test Assertion	BJM-TA-60015
Description	For an SCA service with a JMS binding, when a callback request message is sent for either a one-way or request/response MEP, the SCA runtime MUST send the

	callback request message to the callback destination. This is test for the service callback binding identifying the callback destination
Artifacts	BJM_6015_1_TestCase.java Test_BJM_6015.composite Service4Impl1.java
Expected output	Positive test: “<?xml version="1.0" encoding="UTF-8"?><arg0>onewayOperation1 callback request</arg0>”

306 **BJM_60015_2_TestCase**

Testcase ID	BJM_60015_2_TestCase
Test Assertion	BJM-TA-60015
Description	For an SCA service with a JMS binding, when a callback request message is sent for either a one-way or request/response MEP, the SCA runtime MUST send the callback request message to the callback destination. This is test for the scaCallbackDestination property identifying the callback destination
Artifacts	BJM_6015_2_TestCase.java Test_BJM_6015.composite Service4Impl1.java
Expected output	Positive test: “<?xml version="1.0" encoding="UTF-8"?><arg0>onewayOperation1 callback request</arg0>”

307 **BJM_60015_3_TestCase**

Testcase ID	BJM_60015_3_TestCase
Test Assertion	BJM-TA-60015
Description	For an SCA service with a JMS binding, when a callback request message is sent for either a one-way or request/response MEP, the SCA runtime MUST send the callback request message to the callback destination. This is test for the JMS replyTo property identifying the callback destination
Artifacts	BJM_6015_3_TestCase.java Test_BJM_6015.composite Service4Impl1.java
Expected output	Positive test: “<?xml version="1.0" encoding="UTF-8"?><arg0>onewayOperation1 callback request</arg0>”

308 **BJM_60016_TestCase**

Testcase ID	BJM_60016_TestCase
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Test Assertion	BJM-TA-60016
Description	Tests that for an SCA service with a JMS binding, when a callback request message is sent and no callback destination can be identified then the SCA runtime SHOULD raise an error, and MUST throw an exception to the caller of the callback operation.
Artifacts	BJM_6016_TestCase.java Test_BJM_6016.composite Service4Impl1.java
Expected output	Negative test: “excpetion”

309 **BJM_60017_1_TestCase**

Testcase ID	BJM_60017_1_TestCase
Test Assertion	BJM-TA-60017
Description	Tests that for an SCA service with a JMS binding, when a callback request message is sent the SCA runtime MUST set the JMSReplyTo destination in the callback request message as defined in sections 6.1 or 6.2 as appropriate for the type of the callback operation invoked. This is the section 6.2 request-response callback case so a replyTo should be set.
Artifacts	BJM_6017_1_TestCase.java Test_BJM_6017.composite Service4Impl2.java
Expected output	Positive test: “<?xml version=\\\"1.0\\\" encoding=\\\"UTF-8\\\"?><arg0>onewayOperation1 callback request</arg0>”

310 **BJM_60017_2_TestCase**

Testcase ID	BJM_60017_2_TestCase
Test Assertion	BJM-TA-60017
Description	Tests that for an SCA service with a JMS binding, when a callback request message is sent the SCA runtime MUST set the JMSReplyTo destination in the callback request message as defined in sections 6.1 or 6.2 as appropriate for the type of the callback operation invoked. This is the section 6.1 oneway callback case so no replyTo should be set.
Artifacts	BJM_6017_2_TestCase.java Test_BJM_6017.composite Service4Impl2.java
Expected output	Positive test:

	"<?xml version=\"1.0\" encoding=\"UTF-8\"?><arg0>operation1 callback request</arg0>"
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3 Cross Mapping of Test Assertions to TestCases

Test Assertion	Test Cases
BJM-TA-30001	BJM_3001_TestCase
BJM-TA-30002	BJM_3002_1_TestCase, BJM_3002_2_TestCase
BJM-TA-30003	BJM_3003_TestCase
BJM-TA-30004	BJM_3004_TestCase
BJM-TA-30005	BJM_3005_TestCase
BJM-TA-30006	Not required (SCA runtimes MAY allow...)
BJM-TA-30007	BJM_3007_TestCase
BJM-TA-30010	Not required (TA SHOULD not MUST)
BJM-TA-30011	BJM_3011A_TestCase, BJM_3011C_TestCase BJM_3011D_TestCase
BJM-TA-30012	BJM_3012A_TestCase, BJM_3012C_TestCase BJM_3012D_TestCase
BJM-TA-30013	Not tested
BJM-TA-30014	BJM_3014A_TestCase, BJM_3014C_TestCase BJM_3014D_TestCase
BJM-TA-30015	BJM_3015Aa_TestCase, BJM_3015Ab_TestCase, BJM_3015Ac_TestCase, BJM_3015Ca_TestCase, BJM_3015Cb_TestCase, BJM_3015Cc_TestCase, BJM_3015Da_TestCase, BJM_3015Db_TestCase, BJM_3015De_TestCase
BJM-TA-30017	BJM_3017_TestCase
BJM-TA-30018	BJM_3018_TestCase
BJM-TA-30019	Not tested
BJM-TA-30020	BJM_3020_TestCase
BJM-TA-30021	BJM_3021_TestCase
BJM-TA-30022	Not tested
BJM-TA-30023	BJM_3023_TestCase
BJM-TA-30024-1	BJM_3024_1_TestCase
BJM-TA-30024-2	BJM_3024_2_TestCase
BJM-TA-30024-3	BJM_3024_3_TestCase
BJM-TA-30024-4	BJM_3024_4_TestCase
BJM-TA-30025-1	BJM_3025_1_TestCase
BJM-TA-30025-2	BJM_3025_2_TestCase
BJM-TA-30026-1	BJM_3026_1_TestCase
BJM-TA-30026-2	BJM_3026_2_TestCase
BJM-TA-30026-3	BJM_3026_3_TestCase
BJM-TA-30028	Not required (SCA runtimes MAY allow...)
BJM-TA-30029	BJM_3029_TestCase

BJM-TA-30030	Not required (SCA runtimes MAY allow...)
BJM-TA-30031	BJM_3031_TestCase
BJM-TA-30034	BJM_3034_TestCase
BJM-TA-30036	BJM_3036_TestCase
BJM-TA-30037	Not tested

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Test Assertion	Test Cases
BJM-TA-40001	BJM_4001_TestCase
BJM-TA-40002	BJM_4002_1_TestCase, BJM_4002_2_TestCase, BJM_4002_3_TestCase, BJM_4002_4_TestCase
BJM-TA-40003	BJM_4003_TestCase
BJM-TA-40004	BJM_4004_TestCase, BJM_4004_2_TestCase
BJM-TA-40005	BJM_4005B_TestCase, BJM_4005T_TestCase
BJM-TA-40006	BJM_4006_TestCase
BJM-TA-40007	Not required (SCA runtimes MAY allow...)
BJM-TA-40008	BJM_4008_TestCase
BJM-TA-40009	BJM_4009_TestCase
BJM-TA-40010	BJM_4010_TestCase
BJM-TA-40011	BJM_4011_TestCase

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Test Assertion	Test Cases
BJM-TA-50001	BJM_5001_TestCase
BJM-TA-50002	Not tested

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Test Assertion	Test Cases
BJM-TA-60001	Not tested
BJM-TA-60002	BJM_6002_TestCase
BJM-TA-60003	BJM_6003_1_TestCase, BJM_6003_2_TestCase, BJM_6003_3_TestCase
BJM-TA-60004	BJM_6004_TestCase
BJM-TA-60005	BJM_6005_TestCase
BJM-TA-60006	Not tested
BJM-TA-60007	BJM_6007_TestCase, BJM_6007_2_TestCase
BJM-TA-60008	BJM_6008_TestCase
BJM-TA-60009	Not required (SHOULD not MUST)
BJM-TA-60010	Not tested
BJM-TA-60011	BJM_6011_TestCase
BJM-TA-60012	BJM_6012_TestCase
BJM-TA-60013	BJM_6013_TestCase, BJM_6013_2_TestCase
BJM-TA-60014-1	BJM_6014_1_1_TestCase, BJM_6014_1_2_TestC

	ase
BJM-TA-60014-2	BJM_6014_2_TestCase
BJM-TA-60015	BJM_6015_1_TestCase, BJM_6015_2_TestCase, BJM_6015_3_TestCase
BJM-TA-60016	BJM_6016_TestCase
BJM-TA-60017	BJM_6017_1_TestCase, BJM_6017_2_TestCase
BJM-TA-60018	Not tested

4 Catalog of Test Artifacts

4.1 Composite Files - lower level

Name	Valid	Description
TestClient_0001.composite	Y	<i>Test client invocation composite</i> <i>1 service</i> TestInvocation interface TestInvocation <i>1 reference</i> reference1 (1..1) interface Service1
TestComposite1.composite	Y	<i>1 service</i> Service1 interface Service1 0 references Service1Impl
TestComposite21.composite	Y	<i>1 service</i> Service2 interface Service2 0 references Service2Impl
TestComposite34.composite	Y	<i>1 service</i> Service3 interface Service3 <i>1 reference</i> Reference3 interface Service3 Service3Impl
TestComposite4.composite	Y	<i>1 service</i> Service1 interface Service1 0 references Service1Impl2

4.2 Java Interfaces

Name	Description
Service1.java	Remotable interface with 1 operation "operation1", string input and output
Service2.java	Remotable interface with 2 operations "operation1", string input and output "operation2", string input and output
Service3.java	Remotable interface with 1 oneway operation "operation1", string input
Service4.java	Remotable interface with call back Service4Callback, with 2 operations "operation1", string input and output

	"onewayOperation1", string input
Service5.java	Remotable interface with 2 operations "onMessage", string input and output "dummy", string input and output
Service4Callback.java	Remotable interface with 2 operations "callbackMessage", string input "callbackWithReply", string input and output
TestInvocation.java	Remotable interface with 1 operation "invokeTest", string input,string output

322 4.3 Java Implementation Classes

Name	Description
Service1Impl.java	1 service "Service1", 1 property "serviceName"
Service1Impl2.java	1 service "Service1", 1 property "serviceName", 1 reference "reference1"
Service2Impl.java	1 service "Service2", 1 property "serviceName"
Service2Impl2.java	1 service "Service2", 1 references "reference1"
Service3Impl2.java	1 service "Service3", 1 property "serviceName", 1 reference "reference3"
Service3Impl3.java	1 service "Service3", 1 property "serviceName", 1 reference "reference4"
Service3Impl4.java	1 service "Service3", 1 property "serviceName", 1 reference "reference4"
Service4Impl1.java	1 service "Service4"
Service4Impl2.java	1 service "Service4"
Service5Impl.java	1 service "Service5", 1 property "serviceName"
BJM_0001_Client.java	1 service "TestInvocation", 1 property "testName", 1 reference "reference1"

323 4.4 WSDL Interface Files

Name	Description
Service1.wsdl	Service1 interface 1 operation "operation1", string input and output
Service2.wsdl	Service2 interface

	2 operations “operation1”, string input and output “operation2”, string input and output
Service3.wsdl	Service3 interface 1 operation “operation1”, string input and no output
Service5.wsdl	Service5 interface 2 operations “onMessage”, string input and output “dummy”, string input and output
TestInvocation.wsdl	TestInvocation interface supplied by SCA component to allow client application to invoke test artifacts 1 operation: - "invokeTest" string input, string output

5 Conformance

There are no conformance statements relating to the TestCases.

Appendix A. Test Assertions for the JMS Binding

This section defines the Test Assertions for the SCA JMS Binding specification, following the format defined in the OASIS Test Assertion Guidelines specification [TA-GUIDE].

A.1. Example Test Assertion

Test assertions are presented in a tabular format with rows corresponding to the entry types defined in the OASIS Test Assertions Guidelines

Assertion ID	BJM-TA-nnnnn
	[BJMnnnnn]
Target	<xyuvbghs/> element of composite file
Prerequisites	The [<xyuvbghs/> element] has a @foobar attribute
Predicate	The @foobar attribute of [the <xyuvbghs/> element] is a URI that references a foobar element in the SCA Domain-
Prescription Level	Mandatory
Tags	foobar references

Assertion ID: Is a unique ID for the test assertion. Its format starts with a 3 letter string that identifies the specification to which it relates - "BJM" for the SCA JMS Binding specification. This is followed by "-TA-" to indicate that this identifier is for a test assertion. This is then followed by a unique 5 digit number

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

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

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

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

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

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

A.2. Test Assertions for JMS Bindings Specification Section 3

Assertion ID	BJM-TA-30001
Source	[BJM30001]
Target	The @uri attribute of a <binding.jms> element
Prerequisites	
Predicate	The @uri attribute matches the syntax defined in [IETFJMS]
Prescription Level	Mandatory
Tags	uri

Assertion ID	BJM-TA-30002
Source	[BJM30002]
Target	The @uri attribute of a <binding.jms> element
Prerequisites	One or more of the JNDI resources identified by the destination and jndiConnectionFactoryName in the @uri attribute does not exist
Predicate	SCA runtime raises an error
Prescription Level	Mandatory
Tags	uri, jndi

349

Assertion ID	BJM-TA-30003
Source	[BJM30003]
Target	The @correlationScheme attribute of a <binding.jms> element
Prerequisites	1) <binding.jms> element child of a <service> element has the @correlationScheme attribute set to "sca:messageID" 2) the <service> element has an interface that includes at least one request/reply operation
Predicate	The correlation ID of a reply message is set to the value of the message ID of the corresponding request message when a request/reply operation is invoked
Prescription Level	Mandatory
Tags	request/reply, correlation, service

350

Assertion ID	BJM-TA-30004
Source	[BJM30004]
Target	The @correlationScheme attribute of a <binding.jms> element
Prerequisites	1) <binding.jms> element child of a <service> element has the @correlationScheme attribute set to "sca:correlationID" 2) the <service> element has an interface that includes at least one request/reply operation
Predicate	The correlation ID of a reply message is set to the value of the correlation ID of the corresponding request message when a request/reply operation is invoked
Prescription Level	Mandatory
Tags	request/reply, correlation, service

351

Assertion ID	BJM-TA-30005
Source	[BJM30005]
Target	The @correlationScheme attribute of a <binding.jms> element
Prerequisites	1) <binding.jms> element child of a <service> element has the @correlationScheme attribute set to "sca:none" 2) the <service> element has an interface that includes at least one request/reply operation
Predicate	The correlation ID of a reply message is unset when a request/reply operation is invoked
Prescription Level	Mandatory

352

<u>Tags</u>	<u>request/reply, correlation, service</u>
<u>Assertion ID</u>	<u>BJM-TA-30006</u>
<u>Source</u>	<u>[BJM30006]</u>
<u>Target</u>	<u>The @correlationScheme attribute of a <binding.jms> element</u>
<u>Prerequisites</u>	<u><binding.jms> element child of a <service> element has the @correlationScheme attribute set to some value other than "sca:messageID", "sca:correlationID", "sca:none".</u> <u>The value selected has a specific meaning for the target SCA runtime</u>
<u>Predicate</u>	<u>SCA runtime does not raise an error</u>
<u>Prescription Level</u>	<u>Preferred</u>
<u>Tags</u>	<u>request/reply, correlation, service</u>
<u>Comment</u>	<u>This is untestable. Each SCA runtime may accept additional values, however it will still reject values that it does not understand.</u>

353

<u>Assertion ID</u>	<u>BJM-TA-30007</u>
<u>Source</u>	<u>[BJM30007]</u>
<u>Target</u>	<u>The @correlationScheme attribute of a <binding.jms> element child of a <reference> element</u>
<u>Prerequisites</u>	<u>1) <binding.jms> element child of a <reference> element has the @correlationScheme attribute set to "sca:correlationID"</u>
<u>Predicate</u>	<u>The correlation ID of request messages is set to a non-null value.</u>
<u>Prescription Level</u>	<u>Mandatory</u>
<u>Tags</u>	<u>correlation, reference</u>

354

<u>Assertion ID</u>	<u>BJM-TA-30010</u>
<u>Source</u>	<u>[BJM30010]</u>
<u>Target</u>	<u>SCA Runtime</u>
<u>Prerequisites</u>	<u>1) interface with at least one request/reply operation</u> <u>2) <service> with a child <binding.jms> element</u> <u>JMS client application invokes request/reply operation</u>
<u>Predicate</u>	<u>One and only one response is received by the JMS client application</u>
<u>Prescription Level</u>	<u>Mandatory</u>
<u>Tags</u>	<u>request/reply, service</u>
<u>Comment</u>	<u>This is untestable as there is no defined timescale over which the second response could appear</u>

355

<u>Assertion ID</u>	<u>BJM-TA-30011</u>
<u>Source</u>	<u>[BJM30011]</u>
<u>Target</u>	<u>@create attribute of a <destination>, <connectionFactory> or <activationSpec> element</u>
<u>Prerequisites</u>	<u>1) @create attribute value is "always"</u>

	2) @jndiName attribute specified
	3) Resource of the required type cannot be created at the JNDI location
<u>Predicate</u>	SCA runtime raises an error
<u>Prescription Level</u>	Mandatory
<u>Tags</u>	jndi, connectionFactory, activationSpec, destination

356

<u>Assertion ID</u>	BJM-TA-30012
<u>Source</u>	[BJM30012]
<u>Target</u>	@create attribute of a <destination>, <connectionFactory> or <activationSpec> element
<u>Prerequisites</u>	@create attribute value is "ifNotExist"
<u>Predicate</u>	The @jndiName attribute specifies the location of the resource
<u>Prescription Level</u>	Mandatory
<u>Tags</u>	jndi, connectionFactory, activationSpec, destination

357

<u>Assertion ID</u>	BJM-TA-30013
<u>Source</u>	[BJM30013]
<u>Target</u>	@create attribute of a <destination>, <connectionFactory> or <activationSpec> element
<u>Prerequisites</u>	1) @create attribute value is "ifNotExist" 2) @jndiName attribute specified 3) resource does not exist at given JNDI location, and cannot be created there
<u>Predicate</u>	SCA runtime raises an error
<u>Prescription Level</u>	Mandatory
<u>Tags</u>	jndi, connectionFactory, activationSpec, destination

358

<u>Assertion ID</u>	BJM-TA-30014
<u>Source</u>	[BJM30014]
<u>Target</u>	@jndiName attribute of a <destination>, <connectionFactory> or <activationSpec> element
<u>Prerequisites</u>	1) @create attribute value is "ifNotExist" 2) The @jndiName attribute refers to an existing resource 3) The existing resource is not of the correct type
<u>Predicate</u>	SCA runtime raises an error
<u>Prescription Level</u>	Mandatory
<u>Tags</u>	jndi, connectionFactory, activationSpec, destination

359

<u>Assertion ID</u>	BJM-TA-30015
<u>Source</u>	[BJM30015]
<u>Target</u>	@create attribute of a <destination>, <connectionFactory> or <activationSpec> element
<u>Prerequisites</u>	1) @create attribute value is "never"

	2a) @jndiName not specified, or 2b) @jndiName specified but refers to a non-existent resource, or 2c) @jndiName specified but refers to a resource of an incorrect type
Predicate	SCA runtime raises an error
Prescription Level	Mandatory
Tags	jndi, connectionFactory, activationSpec, destination

360

Assertion ID	BJM-TA-30017
Source	[BJM30017]
Target	<binding.jms> element
Prerequisites	
Predicate	The <binding.jms> element does not have both a <connectionFactory> and <activationSpec> child element
Prescription Level	Mandatory
Tags	connectionFactory, activationSpec

361

Assertion ID	BJM-TA-30018
Source	[BJM30018]
Target	<connectionFactory> element child of <binding.jms> element
Prerequisites	<binding.jms> element with a <connectionFactory> child
Predicate	The destination is defined either by the <destination> element child of the <binding.jms> element or by the @uri attribute of the <binding.jms> element
Prescription Level	Mandatory
Tags	connectionFactory, destination

362

Assertion ID	BJM-TA-30019
Source	[BJM30019]
Target	<activationSpec> element child of <binding.jms> element
Prerequisites	1) <binding.jms> element with an <activationSpec> child 2) destination is defined either by the <destination> element or by the @uri attribute of the <binding.jms> element
Predicate	The destination defined by the <destination> element or @uri attribute refers to the same JMS destination as the <activationSpec>
Prescription Level	Mandatory
Tags	activationSpec, destination

363

Assertion ID	BJM-TA-30020
Source	[BJM30020]
Target	<binding.jms> element
Prerequisites	<binding.jms> element child of a <reference> element
Predicate	The <binding.jms> element does not have an <activationSpec> child

<u>Prescription Level</u>	<u>Mandatory</u>
<u>Tags</u>	<u>reference, activationSpec</u>

364

<u>Assertion ID</u>	<u>BJM-TA-30021</u>
<u>Source</u>	<u>[BJM30021]</u>
<u>Target</u>	<u><response> element</u>
<u>Prerequisites</u>	<u><binding.jms> element with <response> child element</u>
<u>Predicate</u>	<u>The <response> element does not include both a <connectionFactory> and <activationSpec> child</u>
<u>Prescription Level</u>	<u>Mandatory</u>
<u>Tags</u>	<u>response, connectionFactory, activationSpec</u>

365

<u>Assertion ID</u>	<u>BJM-TA-30022</u>
<u>Source</u>	<u>[BJM30022]</u>
<u>Target</u>	<u><response> element</u>
<u>Prerequisites</u>	<u><response> element with both <destination> and <activationSpec> child elements</u>
<u>Predicate</u>	<u>The <destination> and <activationSpec> elements refer to the same destination</u>
<u>Prescription Level</u>	<u>Mandatory</u>
<u>Tags</u>	<u>response, activationSpec, destination</u>

366

<u>Assertion ID</u>	<u>BJM-TA-30023</u>
<u>Source</u>	<u>[BJM30023]</u>
<u>Target</u>	<u><response> element</u>
<u>Prerequisites</u>	<u><service> element with <binding.jms> element child with <response> element child</u>
<u>Predicate</u>	<u>The <response> element does not have an <activationSpec> child element</u>
<u>Prescription Level</u>	<u>Mandatory</u>
<u>Tags</u>	<u>response, activationSpec, service</u>

367

<u>Assertion ID</u>	<u>BJM-TA-30024-1</u>
<u>Source</u>	<u>[BJM30024]</u>
<u>Target</u>	<u>SCA runtime</u>
<u>Prerequisites</u>	<u>@uri attribute including parameters specifying values for type, deliveryMode, timeToLive and priority</u>
<u>Predicate</u>	<u>JMS messages sent have JMSType, JMSDeliveryMode, JMSTimeToLive and JMSPriority headers set as specified by the @uri element</u>
<u>Prescription Level</u>	<u>Mandatory</u>
<u>Tags</u>	<u>uri, headers</u>

368

<u>Assertion ID</u>	<u>BJM-TA-30024-2</u>
<u>Source</u>	<u>[BJM30024]</u>
<u>Target</u>	<u>SCA runtime</u>

<u>Prerequisites</u>	1) operationProperties/headers element corresponding to the operation being invoked with values specified for one or more of @type, @deliveryMode, @timeToLive and @priority 2) @uri attribute not present or not including parameters specifying values for those headers
<u>Predicate</u>	JMS messages sent have JMSType, JMSDeliveryMode, JMSTimeToLive and JMSPriority headers set as specified by the operationProperties/headers element for the operation being invoked
<u>Prescription Level</u>	Mandatory
<u>Tags</u>	uri, headers, operationProperties
<u>Comment</u>	Priority 2 case for BJM30024

369

<u>Assertion ID</u>	BJM-TA-30024-3
<u>Source</u>	[BJM30024]
<u>Target</u>	SCA runtime
<u>Prerequisites</u>	1) headers element with values specified for one or more of @type, @deliveryMode, @timeToLive and @priority 2) No operationProperties/headers element corresponding to the operation being invoked, or the operationProperties/headers element that does correspond to the operation being invoked does not have values specified those headers 3) @uri attribute not present, or not including parameters specifying values for those headers
<u>Predicate</u>	JMS messages sent have JMSType, JMSDeliveryMode, JMSTimeToLive and JMSPriority headers set as specified by the headers element
<u>Prescription Level</u>	Mandatory
<u>Tags</u>	uri, headers, operationProperties
<u>Comment</u>	Priority 3 case for BJM30024

370

<u>Assertion ID</u>	BJM-TA-30024-4
<u>Source</u>	[BJM30024]
<u>Target</u>	SCA runtime
<u>Prerequisites</u>	1) no headers element, or headers element no values specified for one or more of @type, @deliveryMode, @timeToLive and @priority 2) No operationProperties/headers element corresponding to the operation being invoked, or the operationProperties/headers element that does correspond to the operation being invoked does not have values specified those headers 3) @uri attribute not present, or not including parameters specifying values for those headers
<u>Predicate</u>	JMS messages sent have JMSDeliveryMode, JMSTimeToLive and JMSPriority headers set to default values of "persistent", 0, and 4 respectively
<u>Prescription Level</u>	Mandatory
<u>Tags</u>	uri, headers, operationProperties
<u>Comment</u>	Priority 4 case for BJM30024; note that there is no defined default for the type parameter.

371

<u>Assertion ID</u>	<u>BJM-TA-30025-1</u>
<u>Source</u>	<u>[BJM30025]</u>
<u>Target</u>	<u>SCA runtime</u>
<u>Prerequisites</u>	<u>operationProperties element corresponding to the operation being invoked with one or more headers/property children</u>
<u>Predicate</u>	<u>JMS messages sent include a user property for each operationProperties/headers/property element, with the given name, type and value</u>
<u>Prescription Level</u>	<u>Mandatory</u>
<u>Tags</u>	<u>headers, operationProperties</u>

372

<u>Assertion ID</u>	<u>BJM-TA-30025-2</u>
<u>Source</u>	<u>[BJM30025]</u>
<u>Target</u>	<u>SCA runtime</u>
<u>Prerequisites</u>	<u>headers element with one or more headers/property children</u> <u>No operationProperties element corresponding to the operation being invoked, or an operationProperties element corresponding to the operation being invoked with no headers/property children with the same names as those in the headers element</u>
<u>Predicate</u>	<u>JMS messages sent include a user property for each headers/property element, with the given name, type and value</u>
<u>Prescription Level</u>	<u>Mandatory</u>
<u>Tags</u>	<u>headers, operationProperties</u>
<u>Comment</u>	<u>Priority 2 case for BJM30025</u>

373

<u>Assertion ID</u>	<u>BJM-TA-30026-1</u>
<u>Source</u>	<u>[BJM30026]</u>
<u>Target</u>	<u>SCA runtime</u>
<u>Prerequisites</u>	<u>@uri attribute including selector parameter</u>
<u>Predicate</u>	<u>Only messages received by the binding matching the selector specified in the @uri attribute are delivered to the component</u>
<u>Prescription Level</u>	<u>Mandatory</u>
<u>Tags</u>	<u>uri, selector</u>

374

<u>Assertion ID</u>	<u>BJM-TA-30026-2</u>
<u>Source</u>	<u>[BJM30026]</u>
<u>Target</u>	<u>SCA runtime</u>
<u>Prerequisites</u>	<u>1) messageSelection/@selector attribute present</u> <u>2) @uri attribute not present, or not including selector parameter</u>
<u>Predicate</u>	<u>Only messages received by the binding matching the selector specified in the messageSelection/@selector attribute are delivered to the component</u>
<u>Prescription Level</u>	<u>Mandatory</u>
<u>Tags</u>	<u>uri, selector</u>

375

<u>Comment</u>	Priority 2 case for BJM30026
<u>Assertion ID</u>	BJM-TA-30026-3
<u>Source</u>	[BJM30026]
<u>Target</u>	SCA runtime
<u>Prerequisites</u>	1) messageSelection/@selector attribute not present 2) @uri attribute not present, or not including selector parameter
<u>Predicate</u>	All messages received by the binding are delivered to the component
<u>Prescription Level</u>	Mandatory
<u>Tags</u>	uri, selector
<u>Comment</u>	Priority 3 case for BJM30026

376

<u>Assertion ID</u>	BJM-TA-30028
<u>Source</u>	[BJM30028]
<u>Target</u>	<resourceAdapter> element
<u>Prerequisites</u>	
<u>Predicate</u>	
<u>Prescription Level</u>	Permitted
<u>Tags</u>	

377

<u>Assertion ID</u>	BJM-TA-30029
<u>Source</u>	[BJM30029]
<u>Target</u>	@selectedOperation attribute
<u>Prerequisites</u>	Multiple operationProperties/@selectedOperation attributes in the same binding.jms element
<u>Predicate</u>	All @selectedOperation attributes of operationProperties elements have different values
<u>Prescription Level</u>	Mandatory
<u>Tags</u>	selectedOperation, operationProperties

378

<u>Assertion ID</u>	BJM-TA-30030
<u>Source</u>	[BJM30030]
<u>Target</u>	<operationProperties> element
<u>Prerequisites</u>	
<u>Predicate</u>	
<u>Prescription Level</u>	Preferred
<u>Tags</u>	selectedOperation, operationProperties

379

<u>Assertion ID</u>	BJM-TA-30031
<u>Source</u>	[BJM30031]
<u>Target</u>	<resourceAdapter> element

<u>Prerequisites</u>	JMS provider for the resources referenced by the JMS binding is implemented using JCA 1.5 [JCA15] Destination, connectionFactory or activationSpec element with @create attribute value of “always” or “ifNotExist”.
<u>Predicate</u>	The <resourceAdapter> element is present
<u>Prescription Level</u>	Mandatory
<u>Tags</u>	resource adapter, destination, connectionFactory, activationSpec

<u>Assertion ID</u>	BJM-TA-30034
<u>Source</u>	[BJM30034]
<u>Target</u>	<binding.jms> element
<u>Prerequisites</u>	<binding.jms> element with @uri attribute
<u>Predicate</u>	The <binding.jms> element has no <destination> child element
<u>Prescription Level</u>	Mandatory
<u>Tags</u>	uri, destination

<u>Assertion ID</u>	BJM-TA-30036
<u>Source</u>	[BJM30036]
<u>Target</u>	<binding.jms> element
<u>Prerequisites</u>	
<u>Predicate</u>	The <binding.jms> element conforms to the XML schema
<u>Prescription Level</u>	Mandatory
<u>Tags</u>	
<u>Comment</u>	The binding.jms element MUST conform to the XML schema defined in sca-binding-jms-1.1.xsd

<u>Assertion ID</u>	BJM-TA-30037
<u>Source</u>	[BJM30037]
<u>Target</u>	@create attribute of a <destination>, <connectionFactory> or <activationSpec> element
<u>Prerequisites</u>	1) @create attribute value is “always” 2) @jndiName attribute not specified 3) Resource of the required type cannot be created
<u>Predicate</u>	SCA runtime raises an error
<u>Prescription Level</u>	Mandatory
<u>Tags</u>	jndi, connectionFactory, activationSpec, destination

A.3. Test Assertions for JMS Bindings Specification Section 4

<u>Assertion ID</u>	BJM-TA-40001
<u>Source</u>	[BJM40001]
<u>Target</u>	SCA runtime
<u>Prerequisites</u>	<binding.jms> element with either no <wireFormat> child or a <wireFormat.jmsDefault>

	<u>child, and either no <operationSelector> child or a <operationSelector.jmsDefault> child.</u>
<u>Predicate</u>	<u>Messages sent by the service or reference adhere to the default wire format and operation selector behaviour, and messages received by the service or reference that follow this behaviour are correctly processed.</u>
<u>Prescription Level</u>	<u>Mandatory</u>
<u>Tags</u>	<u>wireFormat, operationSelector, default</u>

384

<u>Assertion ID</u>	<u>BJM-TA-40002</u>
<u>Source</u>	<u>[BJM40002]</u>
<u>Target</u>	<u>SCA runtime</u>
<u>Prerequisites</u>	<u><binding.jms> element with no <operationSelector> child</u>
<u>Predicate</u>	<u>The SCA runtime behaves as if <operationSelector.jmsDefault> was specified on the binding</u>
<u>Prescription Level</u>	<u>Mandatory</u>
<u>Tags</u>	<u>operationSelector default</u>

385

<u>Assertion ID</u>	<u>BJM-TA-40003</u>
<u>Source</u>	<u>[BJM40003]</u>
<u>Target</u>	<u>SCA runtime</u>
<u>Prerequisites</u>	<u><service> element with:</u> <u><binding.jms> element with either no <wireFormat> child or <wireFormat.jmsDefault></u> <u><interface> element that identifies an interface with more than one operation, and at least one operation with a single parameter</u> <u>An invocation from a component connected to the service of one of the operations with a single parameter</u>
<u>Predicate</u>	<u>The JMS message sent from the service has the JMS user property "scaOperationName" set to the name of the operation being invoked</u>
<u>Prescription Level</u>	<u>Mandatory</u>
<u>Tags</u>	<u>wireFormat, operation name</u>

386

<u>Assertion ID</u>	<u>BJM-TA-40004</u>
<u>Source</u>	<u>[BJM40004]</u>
<u>Target</u>	<u>SCA runtime</u>
<u>Prerequisites</u>	<u><binding.jms> element with no <wireFormat> child</u>
<u>Predicate</u>	<u>The SCA runtime behaves as if <operationSelector.jmsDefault> was specified on the binding</u>
<u>Prescription Level</u>	<u>Mandatory</u>
<u>Tags</u>	<u>wireFormat, default</u>

387

<u>Assertion ID</u>	<u>BJM-TA-40005</u>
<u>Source</u>	<u>[BJM40005]</u>

<u>Target</u>	<u>SCA runtime</u>
<u>Prerequisites</u>	<u>A <service> or <reference> element with a <binding.jms> element with either no <wireFormat> child or a <wireFormat.jmsDefault> child</u>
<u>Predicate</u>	<u>Response messages sent to the reference and request messages sent to the service are accepted using either JMS text or JMS bytes format</u>
<u>Prescription Level</u>	<u>Mandatory</u>
<u>Tags</u>	<u>wireFormat, default</u>

388

<u>Assertion ID</u>	<u>BJM-TA-40006</u>
<u>Source</u>	<u>[BJM40006]</u>
<u>Target</u>	<u>SCA runtime</u>
<u>Prerequisites</u>	<u>A <service> or <reference> element with a <binding.jms> element with either no <wireFormat> child or a <wireFormat.jmsDefault> child</u>
<u>Predicate</u>	<u>Response messages sent by the service and request messages sent by the reference are either JMS text or JMS bytes</u>
<u>Prescription Level</u>	<u>Mandatory</u>
<u>Tags</u>	<u>wireFormat, default</u>

389

<u>Assertion ID</u>	<u>BJM-TA-40007</u>
<u>Source</u>	<u>[BJM40007]</u>
<u>Target</u>	<u><binding.jms> element</u>
<u>Prerequisites</u>	<u><binding.jms> element with either no <wireFormat> child element or the <wireFormat.jmsDefault> child element.</u>
<u>Predicate</u>	
<u>Prescription Level</u>	<u>Preferred</u>
<u>Tags</u>	<u>wireFormat, default</u>
<u>Comment</u>	<u>Nothing to test here</u>

390

<u>Assertion ID</u>	<u>BJM-TA-40008</u>
<u>Source</u>	<u>[BJM40008]</u>
<u>Target</u>	<u>SCA runtime</u>
<u>Prerequisites</u>	<u><service> element with <binding.jms> child with either no <operationSelector> child or a <operationSelector.jmsDefault> child</u>
<u>Predicate</u>	<u>The resolved operation name is identified using the JMS default operation selector algorithm</u>
<u>Prescription Level</u>	<u>Mandatory</u>
<u>Tags</u>	<u>operationSelector, default</u>

391

<u>Assertion ID</u>	<u>BJM-TA-40009</u>
<u>Source</u>	<u>[BJM40009]</u>
<u>Target</u>	<u>SCA runtime</u>
<u>Prerequisites</u>	<u><service> or <reference> with <binding.jms> child with <wireFormat.jmsDefault> child</u>

<u>Predicate</u>	<u>Messages sent by the service or reference adhere to the default wire format behaviour, and messages received by the service or reference that follow this behaviour are correctly processed.</u>
<u>Prescription Level</u>	<u>Mandatory</u>
<u>Tags</u>	<u>wireFormat, default</u>

392

<u>Assertion ID</u>	<u>BJM-TA-40010</u>
<u>Source</u>	<u>[BJM40010]</u>
<u>Target</u>	<u>SCA runtime</u>
<u>Prerequisites</u>	<u><service> element with <binding.jms> child</u> <u>Resolved operation name in the target component's interface</u>
<u>Predicate</u>	<u>The target component's operation corresponding to the resolved operation name is invoked</u>
<u>Prescription Level</u>	<u>Mandatory</u>
<u>Tags</u>	<u>resolved operation, operationSelector</u>

393

<u>Assertion ID</u>	<u>BJM-TA-40011</u>
<u>Source</u>	<u>[BJM40011]</u>
<u>Target</u>	<u>SCA runtime</u>
<u>Prerequisites</u>	<u><service> element with <binding.jms> child</u> <u>Resolved operation name not in the target component's interface</u>
<u>Predicate</u>	<u>An error is raised by the SCA runtime</u>
<u>Prescription Level</u>	<u>Mandatory</u>
<u>Tags</u>	<u>resolved operation, operationSelector</u>

394

A.4. Test Assertions for JMS Bindings Specification Section 5

<u>Assertion ID</u>	<u>BJM-TA-50001</u>
<u>Source</u>	<u>[BJM50001]</u>
<u>Target</u>	<u>SCA runtime</u>
<u>Prerequisites</u>	<u>SCA service or reference element with requires="JMS" and binding.jms child.</u>
<u>Predicate</u>	<u>The SCA runtime does not report this as an error</u>
<u>Prescription Level</u>	<u>Mandatory</u>
<u>Tags</u>	<u>JMS intent</u>

395

<u>Assertion ID</u>	<u>BJM-TA-50002</u>
<u>Source</u>	<u>[BJM50002]</u>
<u>Target</u>	<u>JMS <bindingType> element</u>
<u>Prerequisites</u>	<u><bindingType> element for the JMS binding</u>
<u>Predicate</u>	<u>The <bindingType> element includes the JMS intent in the @alwaysProvides attribute</u>
<u>Prescription Level</u>	<u>Mandatory</u>
<u>Tags</u>	<u>JMS intent</u>

A.5. Test Assertions for JMS Bindings Specification Section 6

Assertion ID	BJM-TA-60001
Source	[BJM60001]
Target	SCA runtime
Prerequisites	<p><reference> element with:</p> <ul style="list-style-type: none"> No callback interface <p><binding.jms> child</p>
Predicate	JMS messages sent by the reference's JMS binding have a null JMSReplyTo destination
Prescription Level	Preferred
Tags	JMSReplyTo unidirectional reference one-way

Assertion ID	BJM-TA-60002
Source	[BJM60002]
Target	SCA runtime
Prerequisites	<p><service> element with <binding.jms> child</p> <p>Request message corresponding to a one-way operation in the service's interface sent to the service's JMS binding with a non-null JMSReplyTo</p>
Predicate	No error is raised
Prescription Level	Mandatory
Tags	JMSReplyTo unidirectional service one-way

Assertion ID	BJM-TA-60003
Source	[BJM60003]
Target	SCA runtime
Prerequisites	<reference> element with <binding.jms> child with <response> child with <destination> child element.
Predicate	Responses are received according to the value of the @correlationScheme attribute
Prescription Level	Mandatory
Tags	reference request/response correlation

Assertion ID	BJM-TA-60004
Source	[BJM60004]
Target	SCA runtime
Prerequisites	<p><reference> element with <binding.jms> child with <response> child with <destination> child</p> <p>Request/response operation invoked using the JMS reference binding</p>
Predicate	Request messages sent by the JMS reference binding have the JMSReplyTo set to the destination specified in the <destination> element
Prescription Level	Mandatory
Tags	JMSReplyTo reference destination request/response

400

<u>Assertion ID</u>	<u>BJM-TA-60005</u>
<u>Source</u>	<u>[BJM60005]</u>
<u>Target</u>	<u>SCA runtime</u>
<u>Prerequisites</u>	<u><reference> element with <binding.jms> child with either no <response> child, or a <response> child with no <destination> child.</u> <u>Request/response operation invoked using the JMS reference binding</u>
<u>Predicate</u>	<u>Request messages sent by the JMS reference binding have the JMSReplyTo set to a non-null destination</u>
<u>Prescription Level</u>	<u>Mandatory</u>
<u>Tags</u>	<u>JMSReplyTo reference destination request/response</u>

401

<u>Assertion ID</u>	<u>BJM-TA-60006</u>
<u>Source</u>	<u>[BJM60006]</u>
<u>Target</u>	<u>SCA runtime</u>
<u>Prerequisites</u>	<u><reference> element with <binding.jms> child, with either no <response> child, or a <response> child with no <destination> child element.</u>
<u>Predicate</u>	<u>Responses are received either on unique destinations, or according to the value of the @correlationScheme attribute</u>
<u>Prescription Level</u>	<u>Mandatory</u>
<u>Tags</u>	<u>Reference request/response destination correlation</u>

402

<u>Assertion ID</u>	<u>BJM-TA-60007</u>
<u>Source</u>	<u>[BJM60007]</u>
<u>Target</u>	<u>SCA runtime</u>
<u>Prerequisites</u>	<u><service> element with <binding.jms> child</u> <u>Request message received as part of a request/response MEP with non-null JMSReplyTo destination</u>
<u>Predicate</u>	<u>Response message is sent by the service JMS binding to the JMSReplyTo destination</u>
<u>Prescription Level</u>	<u>Mandatory</u>
<u>Tags</u>	<u>JMSReplyTo service response destination</u>

403

<u>Assertion ID</u>	<u>BJM-TA-60008</u>
<u>Source</u>	<u>[BJM60008]</u>
<u>Target</u>	<u>SCA runtime</u>
<u>Prerequisites</u>	<u><service> element with <binding.jms> child with <response> child with <destination> child</u> <u>Request message received as part of a request/response MEP with null JMSReplyTo destination</u>
<u>Predicate</u>	<u>Response message is sent by the service JMS binding to the binding's response destination</u>
<u>Prescription Level</u>	<u>Mandatory</u>

404

<u>Tags</u>	<u>JMSReplyTo service response destination</u>
<u>Assertion ID</u>	<u>BJM-TA-60009</u>
<u>Source</u>	<u>[BJM60009]</u>
<u>Target</u>	<u>SCA runtime</u>
<u>Prerequisites</u>	<u><service> element with <binding.jms> child with either no <response> child, or a <response> child with no <destination> child</u> <u>Request message received as part of a request/response MEP with null JMSReplyTo destination</u>
<u>Predicate</u>	<u>An error is raised by the SCA runtime</u>
<u>Prescription Level</u>	<u>Preferred</u>
<u>Tags</u>	<u>JMSReplyTo service response destination</u>

405

<u>Assertion ID</u>	<u>BJM-TA-60010</u>
<u>Source</u>	<u>[BJM60010]</u>
<u>Target</u>	<u>SCA runtime</u>
<u>Prerequisites</u>	<u><service> element with <binding.jms> child</u> <u>Request message is received by the service JMS binding as part of a request/response MEP</u>
<u>Predicate</u>	<u>Response message sent by the service JMS binding with the correlation identifier set as defined by the @correlationScheme attribute</u>
<u>Prescription Level</u>	<u>Mandatory</u>
<u>Tags</u>	<u>Service response correlation</u>

406

<u>Assertion ID</u>	<u>BJM-TA-60011</u>
<u>Source</u>	<u>[BJM60011]</u>
<u>Target</u>	<u>SCA runtime</u>
<u>Prerequisites</u>	<u><reference> with <binding.jms> child and bidirectional interface</u>
<u>Predicate</u>	<u>Request messages sent by the reference JMS binding for request/response interactions include the scaCallbackDestination user property whose value is a JMS URI string, in the format defined by the IETF URI Scheme for Java™ Message Service 1.0 [IETFJMS], that identifies the destination to which callback messages are to be sent</u>
<u>Prescription Level</u>	<u>Mandatory</u>
<u>Tags</u>	<u>Reference bidirectional callback destination</u>

407

<u>Assertion ID</u>	<u>BJM-TA-60012</u>
<u>Source</u>	<u>[BJM60012]</u>
<u>Target</u>	<u>SCA runtime</u>
<u>Prerequisites</u>	<u><reference> element with <binding.jms> child and bidirectional interface, one-way operation invoked</u>
<u>Predicate</u>	<u>JMSReplyTo set to the destination for callback messages</u>

<u>Prescription Level</u>	<u>Mandatory</u>
<u>Tags</u>	

408

<u>Assertion ID</u>	<u>BJM-TA-60013</u>
<u>Source</u>	<u>[BJM60013]</u>
<u>Target</u>	<u>SCA runtime</u>
<u>Prerequisites</u>	<u><reference> element with <binding.jms> child and bidirectional interface</u> <u>Request message sent as part of a request/response MEP</u>
<u>Predicate</u>	<u>Request messages sent by the reference JMS binding have the JMSReplyTo header set as in section 6.2</u>
<u>Prescription Level</u>	<u>Mandatory</u>
<u>Tags</u>	<u>Reference bidirectional JMSReplyTo</u>
<u>Comment</u>	<u>Already tested by BJM60004 and BJM60005</u>

409

<u>Assertion ID</u>	<u>BJM-TA-60014-1</u>
<u>Source</u>	<u>[BJM60014]</u>
<u>Target</u>	<u>SCA runtime</u>
<u>Prerequisites</u>	<u><reference> with:</u> <ul style="list-style-type: none"> • <u><binding.jms> child</u> • <u>bidirectional interface</u> <u>callback destination identified via callback service JMS binding</u>
<u>Predicate</u>	<u>Request messages sent by the reference JMS binding include the scaCallbackDestination user property set to the specified callback destination</u>
<u>Prescription Level</u>	<u>Mandatory</u>
<u>Tags</u>	<u>Reference bidirectional callback destination</u>

410

<u>Assertion ID</u>	<u>BJM-TA-60014-2</u>
<u>Source</u>	<u>[BJM60014]</u>
<u>Target</u>	<u>SCA runtime</u>
<u>Prerequisites</u>	<u><reference> with:</u> <ul style="list-style-type: none"> • <u><binding.jms> child</u> • <u>bidirectional interface</u> <u>no callback destination specified via callback service JMS binding</u>
<u>Predicate</u>	<u>Request messages sent by the reference JMS binding include the scaCallbackDestination user property set to a specified callback destination provided by the SCA runtime</u>
<u>Prescription Level</u>	<u>Mandatory</u>
<u>Tags</u>	<u>Reference bidirectional callback destination</u>

411

<u>Assertion ID</u>	<u>BJM-TA-60015</u>
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Source	[BJM60015]
Target	SCA runtime
Prerequisites	<p><service> element with <binding.jms> child</p> <p>Callback destination identified as follows, in order of priority:</p> <ul style="list-style-type: none"> The <code>scaCallbackDestination</code> identified by an earlier request, if not null; the <code>JMSReplyTo</code> destination identified by an earlier one-way request, if not null; <p>the request destination of the service's callback reference JMS binding, if specified</p>
Predicate	Request messages sent by the service's callback JMS reference are sent to the callback destination
Prescription Level	Mandatory
Tags	Service callback destination

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Assertion ID	BJM-TA-60016
Source	[BJM60016]
Target	SCA runtime
Prerequisites	<p><service> element with <binding.jms> child</p> <p>No <code>scaCallbackDestination</code> identified by an earlier request</p> <p>No <code>JMSReplyTo</code> destination identified by an earlier one-way request</p> <p>No request destination specified by the service's callback reference JMS binding</p>
Predicate	When a callback request is made an exception is thrown
Prescription Level	Mandatory
Tags	JMSReplyTo service callback destination

413

Assertion ID	BJM-TA-60017
Source	[BJM60017]
Target	SCA runtime
Prerequisites	<service> element with <binding.jms> child
Predicate	Callback request messages have the <code>JMSReplyTo</code> set as defined in section 6.1 or 6.2 as appropriate
Prescription Level	Mandatory
Tags	JMSReplyTo service callback destination

414

Assertion ID	BJM-TA-60018
Source	[BJM60018]
Target	<binding.jms> element
Prerequisites	<service> or <reference> with <binding.jms> child, bidirectional interface and callback <binding.jms>
Predicate	Behaviour as defined in section 6.4 and its subsections is observed

<u>Prescription Level</u>	<u>Mandatory</u>
<u>Tags</u>	

Appendix B. Cross Mapping of Normative Statements to Test Assertions

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

Conformance ID	Test Assertion
BJM30001	BJM-TA-30001
BJM30002	BJM-TA-30002
BJM30003	BJM-TA-30003
BJM30004	BJM-TA-30004
BJM30005	BJM-TA-30005
BJM30006	BJM-TA-30006
BJM30007	BJM-TA-30007
BJM30010	BJM-TA-30010
BJM30011	BJM-TA-30011
BJM30012	BJM-TA-30012
BJM30013	BJM-TA-30013
BJM30014	BJM-TA-30014
BJM30015	BJM-TA-30015
BJM30017	BJM-TA-30017
BJM30018	BJM-TA-30018
BJM30019	BJM-TA-30019
BJM30020	BJM-TA-30020
BJM30021	BJM-TA-30021
BJM30022	BJM-TA-30022
BJM30023	BJM-TA-30023
BJM30024	BJM-TA-30024-1, BJM-TA-30024-2, BJM-TA-30024-3, BJM-TA-30024-4
BJM30025	BJM-TA-30025-1, BJM-TA-30025-2
BJM30026	BJM-TA-30026-1, BJM-TA-30026-2, BJM-TA-30026-3
BJM30028	BJM-TA-30028
BJM30029	BJM-TA-30029
BJM30030	BJM-TA-30030
BJM30031	BJM-TA-30031
BJM30034	BJM-TA-30034
BJM30036	BJM-TA-30036
BJM30037	BJM-TA-30037
BJM40001	BJM-TA-40001
BJM40002	BJM-TA-40002
BJM40003	BJM-TA-40003
BJM40004	BJM-TA-40004
BJM40005	BJM-TA-40005

BJM40006	BJM-TA-40006
BJM40007	BJM-TA-40007
BJM40008	BJM-TA-40008
BJM40009	BJM-TA-40009
BJM40010	BJM-TA-40010
BJM40011	BJM-TA-40011
BJM50001	BJM-TA-50001
BJM50002	BJM-TA-50002
BJM60001	BJM-TA-60001
BJM60002	BJM-TA-60002
BJM60003	BJM-TA-60003
BJM60004	BJM-TA-60004
BJM60005	BJM-TA-60005
BJM60006	BJM-TA-60006
BJM60007	BJM-TA-60007
BJM60008	BJM-TA-60008
BJM60009	BJM-TA-60009
BJM60010	BJM-TA-60010
BJM60011	BJM-TA-60011
BJM60012	BJM-TA-60012
BJM60013	BJM-TA-60013
BJM60014	BJM-TA-60014-1, BJM-TA-60014-2
BJM60015	BJM-TA-60015
BJM60016	BJM-TA-60016
BJM60017	BJM-TA-60017
BJM60018	BJM-TA-60018

Appendix C. Cross Mapping of Test Assertions to TestCases

This section contains a list of Test Assertions and the corresponding TestCases.

<u>Test Assertion</u>	<u>Test Cases</u>
BJM-TA-30001	BJM_3001_TestCase
BJM-TA-30002	BJM_3002_1_TestCase.BJM_3002_2_TestCase
BJM-TA-30003	BJM_3003_TestCase
BJM-TA-30004	BJM_3004_TestCase
BJM-TA-30005	BJM_3005_TestCase
BJM-TA-30006	Not required (SCA runtimes MAY allow...)
BJM-TA-30007	BJM_3007_TestCase
BJM-TA-30010	Not required (TA SHOULD not MUST)
BJM-TA-30011	BJM_3011A_TestCase.BJM_3011C_TestCase BJM_3011D_TestCase
BJM-TA-30012	BJM_3012A_TestCase.BJM_3012C_TestCase BJM_3012D_TestCase
BJM-TA-30013	Not tested
BJM-TA-30014	BJM_3014A_TestCase.BJM_3014C_TestCase BJM_3014D_TestCase
BJM-TA-30015	BJM_3015Aa_TestCase.BJM_3015Ab_TestCase.BJM_3015Ac_TestCase.BJM_3015Ca_TestCase.BJM_3015Cb_TestCase.BJM_3015Cc_TestCase.BJM_3015Da_TestCase.BJM_3015Db_TestCase.BJM_3015Dc_TestCase
BJM-TA-30017	BJM_3017_TestCase
BJM-TA-30018	BJM_3018_TestCase
BJM-TA-30019	Not tested
BJM-TA-30020	BJM_3020_TestCase
BJM-TA-30021	BJM_3021_TestCase
BJM-TA-30022	Not tested
BJM-TA-30023	BJM_3023_TestCase
BJM-TA-30024-1	BJM_3024_1_TestCase
BJM-TA-30024-2	BJM_3024_2_TestCase
BJM-TA-30024-3	BJM_3024_3_TestCase
BJM-TA-30024-4	BJM_3024_4_TestCase
BJM-TA-30025-1	BJM_3025_1_TestCase
BJM-TA-30025-2	BJM_3025_2_TestCase
BJM-TA-30026-1	BJM_3026_1_TestCase
BJM-TA-30026-2	BJM_3026_2_TestCase

BJM-TA-30026-3	BJM_3026_3_TestCase
BJM-TA-30028	Not required (SCA runtimes MAY allow...)
BJM-TA-30029	BJM_3029_TestCase
BJM-TA-30030	Not required (SCA runtimes MAY allow...)
BJM-TA-30031	BJM_3031_TestCase
BJM-TA-30034	BJM_3034_TestCase
BJM-TA-30036	BJM_3036_TestCase
BJM-TA-30037	Not tested

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Test Assertion	Test Cases
BJM-TA-40001	BJM_4001_TestCase
BJM-TA-40002	BJM_4002_1_TestCase, BJM_4002_2_TestCase, BJM_4002_3_TestCase, BJM_4002_4_TestCase
BJM-TA-40003	BJM_4003_TestCase
BJM-TA-40004	BJM_4004_TestCase, BJM_4004_2_TestCase
BJM-TA-40005	BJM_4005B_TestCase, BJM_4005T_TestCase
BJM-TA-40006	BJM_4006_TestCase
BJM-TA-40007	Not required (SCA runtimes MAY allow...)
BJM-TA-40008	BJM_4008_TestCase
BJM-TA-40009	BJM_4009_TestCase
BJM-TA-40010	BJM_4010_TestCase
BJM-TA-40011	BJM_4011_TestCase

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Test Assertion	Test Cases
BJM-TA-50001	BJM_5001_TestCase
BJM-TA-50002	Not tested

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Test Assertion	Test Cases
BJM-TA-60001	Not tested
BJM-TA-60002	BJM_6002_TestCase
BJM-TA-60003	BJM_6003_1_TestCase, BJM_6003_2_TestCase, BJM_6003_3_TestCase
BJM-TA-60004	BJM_6004_TestCase
BJM-TA-60005	BJM_6005_TestCase
BJM-TA-60006	Not tested
BJM-TA-60007	BJM_6007_TestCase, BJM_6007_2_TestCase
BJM-TA-60008	BJM_6008_TestCase
BJM-TA-60009	Not required (SHOULD not MUST)
BJM-TA-60010	Not tested

BJM-TA-60011	BJM_6011_TestCase
BJM-TA-60012	BJM_6012_TestCase
BJM-TA-60013	BJM_6013_TestCase,BJM_6013_2_TestCase
BJM-TA-60014-1	BJM_6014_1_1_TestCase,BJM_6014_1_2_TestCase
BJM-TA-60014-2	BJM_6014_2_TestCase
BJM-TA-60015	BJM_6015_1_TestCase, BJM_6015_2_TestCase, BJM_6015_3_TestCase
BJM-TA-60016	BJM_6016_TestCase
BJM-TA-60017	BJM_6017_1_TestCase, BJM_6017_2_TestCase
BJM-TA-60018	Not tested

Appendix D. Acknowledgments

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

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Appendix E. Revision History

Revision	Date	Editor	Changes Made
wd01	2010-04-15	Simon Holdsworth	Initial draft
wd02	2010-09-16	Ant Elder	Initial tests for wd06 test assertions doc
wd03	2010-10-07	Ant Elder	Review updates and wd07 test assertions doc
wd04	2010-10-21	Ant Elder	More review updates
wd05	2010-10-27	Ant Elder	Added BJM_3007 and further review updates
wd06	2010-10-29	Simon Holdsworth	Updated references, other editorial updates
wd07	2010-11-11	Ant Elder	Updated some expect messages texts