



# Service Component Architecture Test Assertions for the SCA JMS Binding Specification Version 1.1

Working Draft **05**

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## Technical Committee:

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

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## Related work:

This specification is related to:

- Service Component Architecture JMS Binding Specification Version 1.1  
<http://docs.oasis-open.org/opencsa/sca-bindings/sca-jmsbinding-1.1-spec-cd03.pdf>

## Declared XML Namespace(s):

None

## Abstract:

This document defines the Test Assertions for the SCA JMS Binding specification.

The Test Assertions represent the testable items relating to the normative statements made in the SCA JMS Binding specification. The Test Assertions provide a bridge between the normative statements in the specification and the conformance TestCases that are designed to check that an SCA runtime conforms to the requirements of the specification.

**Status:**

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

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# 1 Introduction

This document defines Test Assertions for the SCA JMS Binding specification [SCA-JMS].  
The test assertions in this document follow the format defined in the OASIS Test Assertion Guidelines specification [TA-GUIDE].

## 1.1 Example Test Assertion

Test assertions are presented in a tabular format with rows corresponding to the entry types defined in 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 may be defined in terms of one or more other test assertions that must be true.

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

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

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

## 1.2 Terminology

The key words "MUST", "MUST NOT", "REQUIRED", "SHALL", "SHALL NOT", "SHOULD", "SHOULD NOT", "RECOMMENDED", "MAY", and "OPTIONAL" in this document are to be interpreted as described in RFC Keywords [RFC2119].

This specification uses predefined namespace prefixes throughout; they are given in the following list. Note that the choice of any namespace prefix is arbitrary and not semantically significant.

Table 1-1 Prefixes and Namespaces used in this specification

Prefix	Namespace	Notes
xs	"http://www.w3.org/2001/XMLSchema"	Defined by XML Schema 1.0 specification

sca	"http://docs.oasis-open.org/ns/opencsa/sca/200903"	Defined by the SCA specifications
-----	--	-----------------------------------

Comment [SAJH1]: To be updated

### 29 1.3 Normative References

- 30 [RFC2119] S. Bradner, *Key words for use in RFCs to Indicate Requirement Levels*,  
31 <http://www.ietf.org/rfc/rfc2119.txt>, IETF RFC 2119, March 1997.
- 32 [SCA-JMS] OASIS Committee Draft 03, "SCA JMS Binding Specification Version 1.1", July  
33 2009 [http://docs.oasis-open.org/opencsa/sca-bindings/sca-jmsbinding-1.1-](http://docs.oasis-open.org/opencsa/sca-bindings/sca-jmsbinding-1.1-spec.pdf)  
34 [spec.pdf](http://docs.oasis-open.org/opencsa/sca-bindings/sca-jmsbinding-1.1-spec.pdf)
- 35 [TA-GUIDE] OASIS Test Assertion Guidelines Specification Draft 0.9.9.6, 16 November, 2008  
36 [http://www.oasis-](http://www.oasis-open.org/apps/group_public/download.php/30070/TestAssertionsGuidelines-draft-0-9-9-6.pdf)  
37 [open.org/apps/group\\_public/download.php/30070/TestAssertionsGuidelines-](http://www.oasis-open.org/apps/group_public/download.php/30070/TestAssertionsGuidelines-draft-0-9-9-6.pdf)  
38 [draft-0-9-9-6.pdf](http://www.oasis-open.org/apps/group_public/download.php/30070/TestAssertionsGuidelines-draft-0-9-9-6.pdf)
- 39 [JMS] Java™ Message Service Specification Version 1.1  
40 <http://java.sun.com/products/jms/>
- 41 [WSDL] E. Christensen et al, *Web Service Description Language (WSDL) 1.1*,  
42 <http://www.w3.org/TR/2001/NOTE-wsdl-20010315>, W3C Note, March 15 2001.  
43 R. Chinnici et al, *Web Service Description Language (WSDL) Version 2.0 Part 1:*  
44 *Core Language*, <http://www.w3.org/TR/2007/REC-wsdl20-20070626/>, W3C  
45 Recommendation, June 26 2007.
- 46 [JCA15] J2EE Connector Architecture Specification Version 1.5  
47 <http://java.sun.com/j2ee/connector/>
- 48 [IETFJMS] M. Phillips, P. Easton, D. Rokicki, E. Johnson, *URI Scheme for Java™ Message*  
49 *Service 1.0* <http://www.ietf.org/id/draft-merrick-jms-uri-06.txt>, IETF Internet-Draft  
50 June 2009<sup>1</sup>
- 51 [SCA-Assembly] OASIS Committee Draft 03, "Service Component Architecture Assembly Model  
52 Specification Version 1.1", March 2009 [http://docs.oasis-open.org/opencsa/sca-](http://docs.oasis-open.org/opencsa/sca-assembly/sca-assembly-1.1-spec-cd03.pdf)  
53 [assembly/sca-assembly-1.1-spec-cd03.pdf](http://docs.oasis-open.org/opencsa/sca-assembly/sca-assembly-1.1-spec-cd03.pdf)
- 54 [SCA-Policy] OASIS Committee Draft 02, "SCA Policy Framework Specification Version 1.1",  
55 February 2009 [http://docs.oasis-open.org/opencsa/sca-policy/sca-policy-1.1-](http://docs.oasis-open.org/opencsa/sca-policy/sca-policy-1.1-spec-cd02.pdf)  
56 [spec-cd02.pdf](http://docs.oasis-open.org/opencsa/sca-policy/sca-policy-1.1-spec-cd02.pdf)

### 57 1.4 Non-Normative References

58 TBD TBD

### 59 1.5 Naming Conventions

60 This specification follows some naming conventions for artifacts defined by the specification. In addition  
61 to the conventions defined by section 1.3 of the SCA Assembly Specification [SCA-Assembly], this  
62 specification adds three additional conventions:

---

<sup>1</sup> Note that this URI scheme is currently in draft. The reference for this specification will be updated when the IETF standard is finalized

- 63 • Where the names of elements and attributes consist partially or wholly of acronyms, the letters of the  
64 acronyms use the same case. When the acronym appears at the start of the name of an element or  
65 an attribute, or after a period, it is in lower case. If it appears elsewhere in the name of an element or  
66 an attribute, it is in upper case. For example, an attribute might be named "uri" or "jndiURL".
- 67 • Where the names of types consist partially or wholly of acronyms, the letters of the acronyms are in  
68 all upper case. For example, an XML Schema type might be named "JCABinding" or "MessageID".
- 69 • Values, including local parts of QName values, follow the rules for names of elements and attributes  
70 as stated above, with the exception that the letters of acronyms are in all upper case. For example, a  
71 value might be "JMSDefault" or "namespaceURI".

## 72 2 Test Assertions for JMS Binding Specification

### 73 2.1 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 <b>[IETFJMS]</b>
Prescription Level	Mandatory
Tags	
<b>Comment</b>	The value of the @uri attribute MUST have the format defined by the IETF URI Scheme for Java™ Message Service 1.0 [IETFJMS]

74

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	
<b>Comment</b>	When the @uri attribute is specified, the SCA runtime MUST raise an error if the referenced resources do not already exist

75

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	Mandatory

Level	
Tags	
<b>Comment</b>	If the value of the @correlationScheme attribute is "sca:messageID" the SCA runtime MUST set the correlation ID of replies to the message ID of the corresponding request

76

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	
<b>Comment</b>	If the value of the @correlationScheme attribute is "sca:correlationID" the SCA runtime MUST set the correlation ID of replies to the correlation ID of the corresponding request

77

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
Tags	
<b>Comment</b>	If the value of the @correlationScheme attribute is "sca:none" the SCA runtime MUST NOT set the correlation ID

78

Assertion ID	BJM-TA-30006
Source	[BJM30006]
Target	The @correlationScheme attribute of a <binding.jms> element

Prerequisites	<binding.jms> element child of a <service> element has the @correlationScheme attribute set to some value other than "sca:messageID", "sca:correlationID", "sca:none"
Predicate	SCA runtime does not raise an error
Prescription Level	Optional
Tags	
<b>Comment</b>	SCA runtimes MAY allow other values of the @correlationScheme attribute to indicate other correlation schemes

79

Assertion ID	BJM-TA-30010
Source	[BJM30010]
Target	SCA Runtime
Prerequisites	<ol style="list-style-type: none"> <li>1) interface with at least one request/reply operation</li> <li>2) &lt;service&gt; with a child &lt;binding.jms&gt; element</li> <li>3) client invokes request/reply operation</li> </ol>
Predicate	One and only one response is received
Prescription Level	Mandatory
Tags	
<b>Comment</b>	Whatever the value of the destination/@type attribute, the SCA runtime MUST ensure a single response is delivered for request/response operations <b>Editorial note: should insert "SCA" in the text in JMS binding spec</b>

80

Assertion ID	BJM-TA-30011
Source	[BJM30011]
Target	@create attribute of a <destination>, <connectionFactory> or <activationSpec> element
Prerequisites	<ol style="list-style-type: none"> <li>1) @create attribute value is "always"</li> <li>2) @jndiName attribute specified</li> <li>3) Resource of the required type cannot be created at the JNDI location</li> </ol>
Predicate	SCA runtime raises an error
Prescription Level	Mandatory
Tags	
<b>Comment</b>	If 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

81

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

82

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

83

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

**Deleted:** If the destination, connectionFactory or activationSpec does not exist at the location identified by the @jndiName attribute, but cannot be created there then the SCA runtime MUST raise an error¶  
Issue raised to clarify this is for the ifNotExist case

**Deleted:** 1

**Deleted:** 2

Tags	
<b>Comment</b>	<u>If 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.</u>

84

Assertion ID	BJM-TA-30015
Source	[BJM30015]
Target	@create attribute of a <destination>, <connectionFactory> or <activationSpec> element
Prerequisites	<u>1) @create attribute value is "never"</u> <u>2a) @jndiName not specified, or</u> <u>2b) @jndiName specified but refers to a non-existent resource, or</u> <u>2c) @jndiName specified but refers to a resource of an incorrect type</u>
Predicate	<u>SCA runtime raises an error.</u>
Prescription Level	Mandatory
Tags	
<b>Comment</b>	<u>If 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.</u>

**Deleted:** If the destination, connectionFactory or activationSpec's @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. Issue raised to clarify this is for the ifNotExist case

**Comment [SAJH2]:** Should this be done using 3 assertions?

**Deleted:** The @jndiName attribute specifies the location of the resource

85

86

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	
<b>Comment</b>	A binding.jms element MUST NOT include both a connectionFactory element and an activationSpec element

**Deleted:** If the @create attribute value for a destination, connectionFactory or activationSpec element is "never" then the @jndiName attribute MUST specify the location of the existing resource

**Deleted:** ¶ Assertion ID ... [1]

87

Assertion ID	BJM-TA-30018
Source	[BJM30018]
Target	<connectionFactory> element

Prerequisites	<binding.jms> element with a <connectionFactory> child
Predicate	The destination is defined either by the <destination> element or by the @uri attribute of the <binding.jms> element
Prescription Level	Mandatory
Tags	
<b>Comment</b>	When the connectionFactory element is present, then the destination MUST be defined either by the destination element or the @uri attribute <b>Does this also apply to the &lt;response&gt; element?</b>

88

Assertion ID	BJM-TA-30019
Source	[BJM30019]
Target	<activationSpec> 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	
<b>Comment</b>	If the activationSpec element is present and the destination is also specified via a destination element or the @uri attribute then it MUST refer to the same JMS destination as the activationSpec

89

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
Prescription Level	Mandatory
Tags	
<b>Comment</b>	The activationSpec element MUST NOT be present when the binding is being used for an SCA reference

90

Assertion ID	BJM-TA-30021
Source	[BJM30021]

Target	<response> element
Prerequisites	<binding.jms> element with <response> child element
Predicate	The <response> element does not include both a <connectionFactory> and <activationSpec> child
Prescription Level	Mandatory
Tags	
<b>Comment</b>	A response element MUST NOT include both a connectionFactory element and an activationSpec element

91

Assertion ID	BJM-TA-30022
Source	[BJM30022]
Target	<response> element
Prerequisites	<response> element with both <destination> and <activationSpec> child elements
Predicate	The <destination> and <activationSpec> elements refer to the same destination
Prescription Level	Mandatory
Tags	
<b>Comment</b>	If a response/destination and response/activationSpec element are both specified they MUST refer to the same JMS destination

92

Assertion ID	BJM-TA-30023
Source	[BJM30023]
Target	<response> element
Prerequisites	<service> element with <binding.jms> element child with <response> element child
Predicate	The <response> element does not have an <activationSpec> child element
Prescription Level	Mandatory
Tags	
<b>Comment</b>	The response/activationSpec element MUST NOT be present when the binding is being used for an SCA service

93

Assertion ID	BJM-TA-30024- <del>1</del>
Source	[BJM30024]
Target	SCA runtime
Prerequisites	<del>@uri attribute including parameters specifying values for type, deliveryMode, timeToLive and priority.</del>

**Deleted:** <headers> element with values specified for @type, @deliveryMode, @timeToLive and @priority, with no operation-level overrides for the operation being invoked

Predicate	JMS messages sent have <u>JMSType, JMSDeliveryMode, JMSTimeToLive and JMSPriority</u> headers set as specified by the <u>@uri</u> element
Prescription Level	Mandatory
Tags	
<b>Comment</b>	<p>When sending messages for a JMS binding, the SCA runtime MUST set each of the <u>JMSType, JMSDeliveryMode, JMSTimeToLive and JMSPriority</u> headers to values specified in the binding definition in the following priority order:</p> <ol style="list-style-type: none"> <li><u>1) the value for the header specified in the @uri attribute (highest priority);</u></li> <li><u>2) the value for the header specified in the operationProperties/headers element matching the operation being invoked;</u></li> <li><u>3) the value for the header specified in the headers element;</u></li> <li><u>4) the default value for the header as specified by the definition of the binding.jms/headers element (lowest priority).</u></li> </ol>

**Deleted:** <headers>

**Deleted:** The SCA runtime MUST set JMS headers in messages that it creates to the values specified by the headers element unless overridden for the operation being invoked.

94

<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>	<ol style="list-style-type: none"> <li><u>1) operationProperties/headers element corresponding to the operation being invoked with values specified for one or more of @type, @deliveryMode, @timeToLive and @priority</u></li> <li><u>2) @uri attribute not present or not including parameters specifying values for those headers</u></li> </ol>
<u>Predicate</u>	<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>
<u>Prescription Level</u>	<u>Mandatory</u>
<u>Tags</u>	
<b>Comment</b>	<u>Priority 2 case for BJM30024</u>

95

<u>Assertion ID</u>	<u>BJM-TA-30024-3</u>
<u>Source</u>	<u>[BJM30024]</u>
<u>Target</u>	<u>SCA runtime</u>
<u>Prerequisites</u>	<ol style="list-style-type: none"> <li><u>1) headers element with values specified for one or more of @type, @deliveryMode, @timeToLive and @priority</u></li> <li><u>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</u></li> <li><u>3) @uri attribute not present, or not including parameters specifying values for those headers</u></li> </ol>

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<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>	
<b>Comment</b>	Priority 3 case for BJM30024
<u>Assertion ID</u>	BJM-TA-30024-4
<u>Source</u>	[BJM30024]
<u>Target</u>	SCA runtime
<u>Prerequisites</u>	<p>1) no headers element, or headers element no values specified for one or more of @type, @deliveryMode, @timeToLive and @priority</p> <p>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</p> <p>3) @uri attribute not present, or not including parameters specifying values for those headers</p>
<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>	
<b>Comment</b>	Priority 4 case for BJM30024; note that there is no defined default for the type parameter.

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

**Deleted:** @uri attribute

**Deleted:** 1) @uri attribute with values specified for type, delivery mode, time to live or priority  
 2) <headers> element with values specified for @type, @deliveryMode, @timeToLive and @priority  
 3) <operationProperties> element for the operation being invoked with values specified for @type, @deliveryMode, @timeToLive and @priority

**Deleted:** The values specified in the @uri attribute are set in JMS messages that are sent

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	<p>being invoked (highest priority);</p> <p>2) the type and value for the named user property specified in a <i>headers/property</i> element (lowest priority).</p>
<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>	<p>headers element with one or more headers/property children</p> <p>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</p>
<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>Comment</u>	<u>Priority 2 case for BJM30025</u>

**Deleted:** If the @uri attribute includes values for the type, delivery mode, time to live or priority properties then the @uri values are used and the headers and operationProperties/headers @type, @deliveryMode, @timeToLive or @priority attributes are ignored¶  
No RFC2119 keywords, issue raised

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<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>Comment</u>	<p>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> <p>1) the value for the message selector specified in the @uri attribute value's "selector" parameter (highest priority);</p> <p>2) the value for the message selector specified in the <i>messageSelection/@selector</i> attribute;</p> <p>3) otherwise no message selector is used (lowest priority).</p>

**Deleted:** <headers> element with <property> child, with no operation-level overrides for the operation being invoked

**Deleted:** JMS messages sent have the user property set as specified by the <headers> element <property> child

100

<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>

**Deleted:** For each header/properties element the SCA runtime MUST set the named JMS user property to the given value in messages it creates unless overridden for the operation being invoked

<u>Predicate</u>	<u>2) @uri attribute not present, or not including selector parameter</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>	
<b>Comment</b>	<u>Priority 2 case for BJM30026</u>

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<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 not present</u> <u>2) @uri attribute not present, or not including selector parameter</u>
<u>Predicate</u>	<u>All messages received by the binding are delivered to the component</u>
<u>Prescription Level</u>	<u>Mandatory</u>
<u>Tags</u>	
<b>Comment</b>	<u>Priority 3 case for BJM30026</u>

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103

Deleted: ¶  
Assertion ID ... [2]

Assertion ID	BJM-TA-30028
Source	[BJM30028]
Target	
Prerequisites	
Predicate	
Prescription Level	Optional
Tags	
<b>Comment</b>	SCA runtimes MAY place restrictions on the properties of the resource adapter Java bean that can be set using the resourceAdapter element <b>Nothing to test here?</b>

104

Assertion ID	BJM-TA-30029
Source	[BJM30029]
Target	@selectedOperation attribute
Prerequisites	Multiple operationProperties/@selectedOperation attributes in the same binding.jms element

Predicate	All @selectedOperation attributes of operationProperties elements have different values
Prescription Level	Mandatory
Tags	
<b>Comment</b>	The value of the operationProperties/@selectedOperation attribute MUST be unique across the containing binding.jms element

105

Assertion ID	BJM-TA-30030
Source	[BJM30030]
Target	<operationProperties> element
Prerequisites	
Predicate	
Prescription Level	Optional
Tags	
<b>Comment</b>	The SCA runtime SHOULD make the operationProperties element corresponding to the selectedOperation available to the wireFormat implementation <b>Nothing to test here?</b>

106

Assertion ID	BJM-TA-30031
Source	[BJM30031]
Target	<resourceAdapter> element
Prerequisites	JMS provider for the resources referenced by the JMS binding is implemented using JCA 1.5 <b>[JCA15]</b> Destination, connectionFactory or activationSpec element with @create attribute value of "always" or "ifNotExist".
Predicate	The <resourceAdapter> element is present
Prescription Level	Mandatory
Tags	
<b>Comment</b>	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] specification, and is ignored otherwise

107

109

Assertion ID	BJM-TA-30034
Source	[BJM30034]
Target	<binding.jms> element

Deleted: ¶  
Assertion ID ... [3]

Prerequisites	<binding.jms> element with @uri attribute
Predicate	The <binding.jms> element has no <destination> child element
Prescription Level	Mandatory
Tags	
<b>Comment</b>	When the @uri attribute is specified, the destination element MUST NOT be present

110  
111

Deleted: ¶  
Assertion ID ... [4]

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

112

Assertion ID	BJM-TA-30037
Source	[BJM30037]
Target	@create attribute of a <destination>, <connectionFactory> or <activationSpec> element
Prerequisites	1) @create attribute value is "always" 2) @jndiName attribute not specified 3) Resource of the required type cannot be created
Predicate	SCA runtime raises an error
Prescription Level	Mandatory
Tags	
<b>Comment</b>	If the @create attribute value for a destination, connectionFactory or activationSpec element is "always" and the @jndiName attribute is not present and the resource cannot be created, then the SCA runtime MUST raise an error

113 **2.2 Section 4**

Assertion ID	BJM-TA-40001
Source	[BJM40001]
Target	SCA runtime

Prerequisites	<binding.jms> element with either no <wireFormat> child or a <wireFormat.jmsDefault> child, and either no <operationSelector> child or a <operationSelector.jmsDefault> child.
Predicate	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.
Prescription Level	Mandatory
Tags	
<b>Comment</b>	The SCA runtime MUST support the default JMS wire format and operation selector behavior, and MAY provide additional means to override it Not sure how to test this other than that the default wire format and operation selector elements present on a binding.jms element are not rejected. The actual behaviour of the defaults are tested in more detail in the following TAs.

114

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

115

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

Tags	
<b>Comment</b>	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

116

Assertion ID	BJM-TA-40004
Source	[BJM40004]
Target	SCA runtime
Prerequisites	<binding.jms> element with no <wireFormat> child
Predicate	The SCA runtime behaves as if <operationSelector.jmsDefault> was specified on the binding
Prescription Level	Mandatory
Tags	
<b>Comment</b>	If no wireFormat element is specified in a JMS binding then SCA runtimes MUST use wireFormat.jmsDefault as the default

117

Assertion ID	BJM-TA-40005
Source	[BJM40005]
Target	SCA runtime
Prerequisites	A <service> or <reference> element with a <binding.jms> element with either no <wireFormat> child or a <wireFormat.jmsDefault> child
Predicate	Response messages sent to the reference and request messages sent to the service are accepted using either JMS text or JMS bytes format
Prescription Level	Mandatory
Tags	
<b>Comment</b>	When using the default wire format an SCA runtime MUST be able to receive both JMS text and bytes messages Should this be split out into separate cases for service and reference? For text and bytes?

118

Assertion ID	BJM-TA-40006
Source	[BJM40006]
Target	SCA runtime
Prerequisites	A <service> or <reference> element with a <binding.jms> element with either no <wireFormat> child or a <wireFormat.jmsDefault> child

Predicate	Response messages sent by the service and request messages sent by the reference are either JMS text or JMS bytes
Prescription Level	Mandatory
Tags	
<b>Comment</b>	When using the default wire format an SCA runtime <b>MUST</b> send either a JMS text or a JMS bytes message

119

Assertion ID	BJM-TA-40007
Source	[BJM40007]
Target	
Prerequisites	
Predicate	
Prescription Level	Mandatory
Tags	
<b>Comment</b>	When using the default wire format an SCA runtime <b>MAY</b> provide additional configuration to allow selection between JMS text or bytes messages to be sent <b>Nothing to test here</b>

120

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

121

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

Predicate	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.
Prescription Level	Mandatory
Tags	
<b>Comment</b>	When a binding.jms element specifies the wireFormat.jmsDefault element, the SCA runtime MUST use the default wire format

122

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

123

Deleted: ¶

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

124

## 2.3 Section 5

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

125

Assertion ID	BJM-TA-50002
Source	[BJM50002]
Target	SCA runtime
Prerequisites	SCA service or reference element with requires="JMS" and binding.jms child.
Predicate	The SCA runtime does not report this as an error
Prescription Level	Mandatory
Tags	JMS intent
<b>Comment</b>	The JMS intent MUST always be included in the @alwaysProvides attribute of the JMS bindingType

126

## 2.4 Section 6

Assertion ID	BJM-TA-60001
Source	[BJM60001]
Target	SCA runtime
Prerequisites	<reference> element with: <ul style="list-style-type: none"> <li>• No callback interface</li> <li>• &lt;binding.jms&gt; child</li> </ul>
Predicate	JMS messages sent by the reference's JMS binding have a null JMSReplyTo destination
Prescription Level	Mandatory ?????
Tags	JMSReplyTo unidirectional reference
<b>Comment</b>	For an SCA reference with a JMS binding and unidirectional interface, when a request message is sent as part of a one-way MEP, the SCA runtime SHOULD NOT set the JMSReplyTo destination header in the JMS message that it creates, regardless of whether the JMS binding has a response element with a destination defined

127

Assertion ID	BJM-TA-60002
Source	[BJM60002]
Target	SCA runtime
Prerequisites	<service> element with <binding.jms> child 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
Predicate	No error is raised
Prescription Level	Mandatory
Tags	JMSReplyTo service one-way
<b>Comment</b>	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 <b>Not sure if absence of an error can be tested</b>

128

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
<b>Comment</b>	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

129

Assertion ID	BJM-TA-60004
Source	[BJM60004]
Target	SCA runtime
Prerequisites	<reference> element with <binding.jms> child with <response> child with <destination> child Request/response operation invoked using the JMS reference binding
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 request/response
<b>Comment</b>	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

130

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

131

Assertion ID	BJM-TA-60006
Source	[BJM60006]
Target	SCA runtime
Prerequisites	<reference> element with <binding.jms> child, with either no <response> child, or a <response> child with no <destination> child element.
Predicate	Responses are received either on unique destinations, or according to the value of the @correlationScheme attribute
Prescription Level	Mandatory
Tags	Reference request/response correlation
<b>Comment</b>	For an SCA reference with a JMS binding that does not have a destination specified via the response element, the SCA runtime MUST either receive response messages as defined by the binding's @correlationScheme attribute, or use a unique destination for each request/response interaction

132

Assertion ID	BJM-TA-60007
Source	[BJM60007]

Target	SCA runtime
Prerequisites	<service> element with <binding.jms> child Request message received as part of a request/response MEP with non-null JMSReplyTo destination
Predicate	Response message is sent by the service JMS binding to the JMSReplyTo destination
Prescription Level	Mandatory
Tags	JMSReplyTo service response
<b>Comment</b>	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

133

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

134

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

<b>Comment</b>	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 does not include a response/destination then an error SHOULD be raised by the SCA runtime
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135

Assertion ID	BJM-TA-60010
Source	[BJM60010]
Target	SCA runtime
Prerequisites	<service> element with <binding.jms> child Request message is received by the service JMS binding as part of a request/response MEP
Predicate	Response message sent by the service JMS binding with the correlation identifier set as defined by the @correlationScheme attribute
Prescription Level	Mandatory
Tags	Service response correlation
<b>Comment</b>	For an SCA service with a JMS binding, when a response message is sent as part of a request/response MEP the SCA runtime MUST set the correlation identifier in the JMS message that it creates for the response as defined by the JMS binding's @correlationScheme attribute

136

Assertion ID	BJM-TA-60011
Source	[BJM60011]
Target	SCA runtime
Prerequisites	<reference> with <binding.jms> child and bidirectional interface
Predicate	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
Prescription Level	Mandatory
Tags	Reference bidirectional
<b>Comment</b>	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 <b>scaCallbackDestination</b> 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], that identifies the destination to which callback messages are to be sent

137

Assertion ID	BJM-TA-60012
Source	[BJM60012]

Target	SCA runtime
Prerequisites	<reference> element with <binding.jms> child and bidirectional interface, one-way operation invoked
Predicate	JMSReplyTo set to the destination for callback messages
Prescription Level	Mandatory
Tags	
<b>Comment</b>	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 <b>MUST</b> set the destination to which callback messages are to be sent as the <b>JMSReplyTo</b> destination in the message it creates

138

Assertion ID	BJM-TA-60013
Source	[BJM60013]
Target	SCA runtime
Prerequisites	<reference> element with <binding.jms> child and bidirectional interface Request message sent as part of a request/response MEP
Predicate	Request messages sent by the reference JMS binding have the JMSReplyTo header set as in section 6.2
Prescription Level	Mandatory
Tags	Reference bidirectional JMSReplyTo
<b>Comment</b>	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 <b>MUST</b> set the JMSReplyTo header in the message it creates as described in section 6.2 <b>I don't think this normative statement actually adds anything, because section 6.2 statements apply to both bidirectional and unidirectional interfaces, although it would need to be clarified in this case that the service and reference are callback service and callback reference</b>

139

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

Level	
Tags	Reference bidirectional callback
Comment	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 Given the "or" in the statement I felt this needed two assertions.

140

Assertion ID	BJM-TA-60014A probably need a new number for this
Source	[BJM60014]
Target	SCA runtime
Prerequisites	<reference> with: <ul style="list-style-type: none"> <li>• &lt;binding.jms&gt; child</li> <li>• bidirectional interface</li> <li>• no callback destination specified via callback service JMS binding</li> </ul>
Predicate	Request messages sent by the reference JMS binding include the scaCallbackDestination user property set to a specified callback destination provided by the SCA runtime
Prescription Level	Mandatory
Tags	Reference bidirectional callback
Comment	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 I'm not actually sure that this really adds anything beyond 60011

141

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

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

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

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Assertion ID	BJM-TA-60018
Source	[BJM60018]
Target	
Prerequisites	
Predicate	

Prescription Level	Mandatory
Tags	
<b>Comment</b>	SCA runtimes MUST follow the behavior described in section 6.4 and its subsections when binding.jms is used in both the forward and callback directions I'm not too happy with this statement at this level; the normative statements in section 6.4.x don't limit themselves to this case, perhaps this statement should be moved to section 8, Conformance as its actually defining section 6.4 as optional in some way.

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## A. Cross Mapping of Conformance Statements to Test Assertions

This section contains a list of conformance items for 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
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

Deleted: BJM30016 ... [5]

Deleted: BJM30027 ... [6]

Deleted: BJM30032 ... [7]

Deleted: BJM30035 ... [8]

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, BJM-TA-60014A
BJM60015	BJM-TA-60015
BJM60016	BJM-TA-60016
BJM60017	BJM-TA-60017
BJM60018	BJM-TA-60018



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151 **B. Acknowledgements**

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

154 **Participants:**

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## C. Revision History

156 [optional; should not be included in OASIS Standards]

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Revision	Date	Editor	Changes Made
wd01	2009-07-24	Simon Holdsworth	Initial draft
wd02	2009-09-24	Simon Holdsworth	Completed assertions from sections 4 and 6
wd03	2009-10-15	Simon Holdsworth	Various updates
wd04	2010-01-24	Simon Holdsworth	Updated for resolutions to issues BINDINGS-48 BINDINGS-93 BINDINGS-94 BINDINGS-96 BINDINGS-97 BINDINGS-103 BINDINGS-108 BINDINGS-110 As per sca-jmsbinding-1.1-spec-cd03-rev1
<a href="#">wd05</a>	<a href="#">2010-02-12</a>	<a href="#">Simon Holdsworth</a>	<a href="#">Updated for resolutions to issues</a> <a href="#">BINDINGS-95</a> <a href="#">BINDINGS-104</a> <a href="#">BINDINGS-105</a> <a href="#">BINDINGS-106</a> <a href="#">As per sca-jmsbinding-1.1-spec-cd03-rev2</a>

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Assertion ID	BJM-TA-30016
Source	[BJM30016]
Target	@create attribute of a <destination>, <connectionFactory> or <activationSpec> element
Prerequisites	1) @create attribute value is "never" 2) The @jndiName attribute refers to an existing resource 3) The existing resource is not of the correct type
Predicate	SCA runtime raises an error
Prescription Level	Mandatory
Tags	
<b>Comment</b>	If the destination, connection factory or activation spec 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 <b>Issue raised to clarify this is for the never case</b>

Assertion ID	BJM-TA-30027
Source	[BJM30027]
Target	@uri attribute
Prerequisites	1) @uri attribute with values specified for message selector 2) <messageSelection> element with values specified for @selector
Predicate	The message selector specified by the @uri attribute is used
Prescription Level	Mandatory
Tags	
<b>Comment</b>	If the @uri attribute includes a value for the message selector then the @uri value is used and the messageSelection/@selector attribute is ignored No RFC2119 keywords. Issue raised

Assertion ID	BJM-TA-30032
Source	[BJM30032]
Target	SCA runtime

Prerequisites	1) <headers> element with values specified for @type, @deliveryMode, @timeToLive and @priority 2) <operationProperties> element for the operation being invoked with values specified for @type, @deliveryMode, @timeToLive and @priority
Predicate	The values specified in the <operationProperties> element are set in JMS messages that are sent
Prescription Level	Mandatory
Tags	
<b>Comment</b>	The SCA runtime MUST set JMS headers in messages it creates when the operation identified by the operationProperties/@name attribute is invoked to the values specified by the corresponding operationProperties/headers element <b>This actually conflicts with BJM30025 which says @uri takes precedence, I think this should say "unless specified by the @uri attribute". Issue raised</b>

Assertion ID	BJM-TA-30033
Source	[BJM30033]
Target	SCA runtime
Prerequisites	1) <headers> element with <property> child 2) <operationProperties> element for the operation being invoked with <property> child with the same name as that on the <headers> element, different value
Predicate	JMS messages sent have the user property set as specified by the <headers> element <property> child
Prescription Level	Mandatory
Tags	
<b>Comment</b>	For each operationProperties/headers/property element the SCA runtime MUST set the named JMS user property to the given value in messages it creates when the operation identified by the operationProperties/@name attribute is invoked

Assertion ID	BJM-TA-30035
Source	[BJM30035]
Target	
Prerequisites	
Predicate	
Prescription Level	Mandatory

Tags	
Comment	An SCA runtime MUST use the values specified in the @uri attribute in preference to corresponding attributes and elements in the binding This one is covered to some extent by other statements (for JMS headers and selector). It feels like it needs to be split up into specific statements about particular elements – at least for connectionFactory and destination

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BJM30016	BJM-TA-30016		

<b>Page 34: [6] Deleted</b>		<b>Simon Holdsworth</b>	<b>12/02/2010 15:25:00</b>
BJM30027	BJM-TA-30027		

<b>Page 34: [7] Deleted</b>		<b>Simon Holdsworth</b>	<b>12/02/2010 15:25:00</b>
BJM30032	BJM-TA-30032		
BJM30033	BJM-TA-30033		

<b>Page 34: [8] Deleted</b>		<b>Simon Holdsworth</b>	<b>12/02/2010 15:25:00</b>
BJM30035	BJM-TA-30035		