



Test Assertions for the SCA EJB Session Bean Binding Version 1.1 Specification

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Related Work:

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- Service Component Architecture EJB Session Bean Binding Specification Version 1.1

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None

Abstract:

This document defines the Test Assertions for the SCA EJB Session Bean Binding specification.

The Test Assertions represent the testable items relating to the normative statements made in the SCA EJB Session Bean Binding specification. The Test Assertions provide a bridge between the

normative statements in the specification and the conformance TestCases which are designed to check that an SCA runtime conforms to the requirements of the specification.

Status:

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1 Introduction

This document defines the Test Assertions for the SCA EJB Session Bean Binding Specification Version 1.1.

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 [TA-GUIDE].

Assertion ID	BSB-TA-xxxx
Source	[BSBx00yy]
Target	<kitchenSink/> element of composite file
Prerequisites	The <kitchenSink/> element has a @drain attribute
Predicate	The @drain attribute value of the <kitchenSink/> element is a URI that identifies a portal into the drainage system of the Domain.
Prescription Level	Mandatory
Tags	kitchenSink drain Domain

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 - "BSB" is for the SCA EJB Session Bean Binding specification. This is followed by "-TA-" to indicate that this identifier is for a test assertion. This is then followed by a unique 4 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, or other SCA artifact 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 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]

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1.3 Normative References

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<http://www.ietf.org/rfc/rfc2119.txt>.

[TA-GUIDE] Test Assertion Guidelines, Draft 0.9.9.6, 16 November, 2008,
http://www.oasis-open.org/apps/group_public/download.php/30070/TestAssertionsGuidelines-draft-0-9-9-6.pdf

[JAVABSBI] OASIS [Committee Draft 02](#), "SCA EJB Session Bean Binding Specification Version 1.1", February 2010.
<http://docs.oasis-open.org/opencsa/sca-j/sca-ejbbinding-1.1-spec.pdf>

[CORBA] CORBA Naming Service Specification,
<http://www.omg.org/docs/formal/04-10-03.pdf>

[ASSEMBLY] [OASIS Committee Draft 05](#), "SCA Assembly Model Specification Version 1.1", January 2010.
<http://docs.oasis-open.org/opencsa/sca-assembly/sca-assembly-1.1-spec-cd0593.pdf>

1.4 Non-normative References

None

2 Test Assertions

2.1 Section 2

Assertion ID	BSB-TA-2001
Source	[BSB20001]
Target	A <service> with child <binding.ejb ejb-version="EJB2"/>
Prerequisites	
Predicate	The value of the @homeInterface attribute is a fully qualified home interface
Prescription Level	mandatory
Tags	"ejb2" "home"

Assertion ID	BSB-TA-2002
Source	[BSB20002]
Target	A <reference> with child <binding.ejb/> containing @ejb-link-name attribute
Prerequisites	SCA component containing the <reference/> is packaged within a Java EE EAR file
Predicate	The value of the @ejb-link-name attribute matches an <ejb-link> target in the same Java EE EAR file
Prescription Level	mandatory
Tags	"reference"

Assertion ID	BSB-TA-2003
Source	[BSB20003]
Target	A <service> with child <binding.ejb/> containing @ejb-link-name attribute
Prerequisites	SCA component containing the <reference/> is packaged within a Java EE EAR file
Predicate	The value of the @ejb-link-name attribute conforms to the "<jar-name>#<ejb-name>" pattern and is unique amongst <ejb-link> targets in the same Java EE EAR file
Prescription Level	mandatory
Tags	"service"

Assertion ID	BSB-TA-2004
Source	[BSB20004]
Target	An SCA component that exposes a <service> with child <binding.ejb ejb-version="EJB2"/>
Prerequisites	An EJB 2.x client that can invoke the service
Predicate	The EJB 2.x client can lookup the EJB home, create and then invoke the service as a session bean.
Prescription Level	mandatory
Tags	"service" "ejb2"

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Assertion ID	BSB-TA-2005
Source	[BSB20005]
Target	An SCA component that exposes a <service> with child <binding.ejb ejb-version="EJB3"/>
Prerequisites	An EJB 3.x client that can invoke the service
Predicate	The EJB 3.x client can locate the service as a remote session bean and invoke it.
Prescription Level	mandatory
Tags	"service" "ejb3"

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Assertion ID	BSB-TA-2006
Source	[BSB20006]
Target	The @uri attribute of <binding.ejb/>
Prerequisites	
Predicate	The value of the @uri attribute is a compliant Object URL [CORBA].
Prescription Level	mandatory
Tags	"URI"

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Assertion ID	BSB-TA-2007
Source	[BSB20007]
Target	A <reference> with child <binding.ejb/>
Prerequisites	
Predicate	Either the @uri attribute or the @ejb-link-name attribute is specified on the binding.
Prescription	mandatory

Level	
Tags	"reference"

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Assertion ID	BSB-TA-2008
Source	[BSB20008]
Target	A <service> or <reference> with child <binding.ejb/>
Prerequisites	
Predicate	The <binding.ejb/> element conforms to the sca-binding-ejb.xsd schema
Prescription Level	mandatory
Tags	"reference" "service" "schema"

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Assertion ID	BSB-TA-2009
Source	[BSB20009]
Target	SCA composite or componentType document
Prerequisites	The document contains a <binding.ejb/> element
Predicate	The document is a conformant SCA Session Bean Binding XML Document
Prescription Level	mandatory
Tags	"document"

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2.2 Section 3

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Assertion ID	BSB-TA-3001
Source	[BSB30001]
Target	Interface of an SCA service with a child <binding.ejb/> element
Prerequisites	SCA service exposes a remotable interface
Predicate	The SCA interface is a compatible superset [ASSEMBLY] of an EJB reference interface
Prescription Level	mandatory
Tags	"service" "interface"

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Assertion ID	BSB-TA-3002
Source	[BSB30001]

Target	Interface of an SCA service with a child <binding.ejb/> element
Prerequisites	SCA service exposes a local interface
Predicate	The SCA interface is a compatible superset [ASSEMBLY] of an EJB reference interface
Prescription Level	mandatory
Tags	“service” “interface”

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Assertion ID	BSB-TA-3003
Source	[BSB30001]
Target	Interface of an SCA service with a child <binding.ejb/> element
Prerequisites	SCA service exposes a remote or local interface The SCA interface contains methods from the EJBObject (remote) or EJBLocalObject (local) interface.
Predicate	The interface is valid
Prescription Level	permitted
Tags	“service” “interface”

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Assertion ID	BSB-TA-3004
Source	[BSB30001]
Target	Interface of an SCA reference with a child <binding.ejb/> element
Prerequisites	SCA reference is bound to a remote session bean interface
Predicate	The SCA interface is remotable and is a compatible subset [ASSEMBLY] of the session bean interface.
Prescription Level	mandatory
Tags	“reference” “interface”

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Assertion ID	BSB-TA-3005
Source	[BSB30001]
Target	Interface of an SCA reference with a child <binding.ejb/> element
Prerequisites	SCA reference is bound to a local session bean interface
Predicate	The SCA interface is local and is a compatible subset [ASSEMBLY] of the session bean interface.
Prescription Level	mandatory

Tags	“reference” “interface”
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Assertion ID	BSB-TA-3006
Source	[BSB30001]
Target	Interface of an SCA reference with a child <binding.ejb/> element
Prerequisites	SCA reference is bound to a local or remote session bean interface The SCA interface contains methods from the EJBLocalObject (local) or EJBObject (remote) interface.
Predicate	The interface is valid
Prescription Level	permitted
Tags	“reference” “interface”

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Assertion ID	BSB-TA-3007
Source	[BSB30002]
Target	Interface of an SCA reference with a child <binding.ejb/> element
Prerequisites	
Predicate	The SCA interface is not an EJB 2.x interface.
Prescription Level	mandatory
Tags	“reference” “interface” “ejb2”

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2.3 Section 4

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Assertion ID	BSB-TA-4001
Source	[BSB40001]
Target	An SCA reference with a child <binding.ejb/> element
Prerequisites	a) The SCA reference is bound to an EJB Session bean b) A method A on the session bean throws a non-business exception c) Method A is invoked
Predicate	The SCA client receives a ServiceRuntimeException.
Prescription Level	mandatory
Tags	“reference” “exception”

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2.4 Section 6

Assertion ID	BSB-TA-6001
Source	[BSB60001]
Target	An SCA service with a child <binding.ejb/> element
Prerequisites	
Predicate	The Java interface that is the value of the @homeInterface attribute contains one and only one create method.
Prescription Level	mandatory
Tags	“service” “home”

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Assertion ID	BSB-TA-6002
Source	[BSB60002]
Target	An SCA service with a child <binding.ejb.ejb-version="EJB2"/> element
Prerequisites	An EJB 2.x client that is connected to the SCA service
Predicate	The EJB 2.x client can invoke an EJBObject or EJBLocalObject method.
Prescription Level	mandatory
Tags	“service” “home” “ejb2”

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3 Cross Mapping of Conformance Statements to Assertions

Conformance statement	Test Assertion
BSB20001	BSB-TA-2001
BSB20002	BSB-TA-2002
BSB20003	BSB-TA-2003
BSB20004	BSB-TA-2004
BSB20005	BSB-TA-2005
BSB20006	BSB-TA-2006
BSB20007	BSB-TA-2007
BSB20008	BSB-TA-2008
BSB20009	BSB-TA-2009

Conformance statement	Test Assertion
BSB30001	BSB-TA-3001 BSB-TA-3002 BSB-TA-3003 BSB-TA-3004 BSB-TA-3005 BSB-TA-3006
BSB30002	BSB-TA-3007

Conformance statement	Test Assertion
BSB40001	BSB-TA-4001

Conformance statement	Test Assertion
BSB60001	BSB-TA-6001
BSB60002	BSB-TA-6002

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4 Conformance

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There are no conformance statements relating to the Test Assertions.

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Appendix A. Acknowledgments

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

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Appendix B. Non-Normative Text

Appendix C. Revision History

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Revision	Date	Editor	Changes Made
1	08/28/09	David Booz	Initial version
2	10/26/09	David Booz	Minor updates from review
WD03	03/09/10	David Booz	Editorial changes to upgrade to WD01 Small updates to align with the EJB binding spec CD02.

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