

# ACATS Modification List for ACATS 4.0

Version 4.0G

June 22, 2015

## What is this?

This is the ACATS modification list for ACATS 4.0. This document includes test corrections, test removals, and new tests for ACATS 4.0. ACATS 4.0 is the current test suite for Ada, covering the third edition of Ada, ISO/IEC 8652:2012 (usually known as "Ada 2012").

ACATS Modification List version 3.1H for ACATS 3.1 is the current list for that test suite. ACATS 3.1 should be used for testing implementations that support Amendment 1 (ISO/IEC 8652:1995/AMD 1:2007, often known as "Ada 2005"), and will continue to be maintained as necessary for the foreseeable future.

ACATS Modification List version 2.6D for ACATS 2.6 is the current list for that test suite. ACATS 2.6 should be used for testing implementations of the second edition of Ada, ISO/IEC 8652:1995 (usually known as "Ada 95"); it also will continue to be maintained as necessary for the foreseeable future.

## Changes from the last list:

BC60002, BC60003, BC60004, and CC66001 test various rules for formal abstract subprograms.

New tests posted between April 1, 2015 and June 30, 2015 will become required for conformity assessments on January 1, 2016. New tests posted between January 1, 2015 and March 31, 2015 will become required for conformity assessments on October 1, 2015. New tests posted between October 1, 2014 and December 31, 2014 will become required for conformity assessments on July 1, 2015. New tests posted before September 30, 2014 are now required for conformity assessments. All tests posted to modification lists for other versions of the ACATS are included in ACATS 4.0 if appropriate and thus are required for conformity assessment using ACATS 4.0. The effective dates of tests are marked in the lists.

Questions about this document? Contact the ACAA Technical Agent at [agent@ada-auth.org](mailto:agent@ada-auth.org).

## 2015 Corrigendum:

Beginning with ACATS Modification List 4.0B, we have included tests for corrections (including new features) in the upcoming 2015 Corrigendum. Most of these corrections have already been approved by WG 9, and those that haven't been are expected to be approved at their next meeting. All of these changes are technically corrections to Ada 2012; as such we will assume all such corrections are implemented for Ada 2012 compilers.

Implementers can request grading modifications for any tests containing 2015 Corrigendum changes until the Corrigendum is approved as a whole by WG 9 (expected at their late June 2015 meeting). Note that all such tests will not be required until after that meeting anyway, as new tests have a six month review period before being required.

## Notice:

The ACAA has created and maintains the Ada Conformity Assessment Test Suite for the purpose of conformity assessments conducted in accordance with the International Standard ISO/IEC 18009 - Ada: Conformity assessment of a language processor. This test suite should not be used to make claims of conformance unless used in accordance with ISO/IEC 18009 and any applicable ACAA procedures.

## List explanation:

Test numbers given are for the basic test. Categories are “Withdrawn” (the test should not be processed for Ada conformity assessments); “Allowed Modification” (either the original test or the modified one should be processed for Ada conformity assessments); “Modified” (the modified test must be processed for Ada conformity assessments); “Pending New” (the test does not need to be processed for Ada conformity assessments, but will be added in the future); “New” (the test is processed for Ada conformity assessments).

ACATS version labels are provided with all new and modified tests. Use this label to retrieve the test from the ACATS VCS. See “How to get new and modified tests”.

In citations, line numbers are given relative to the start of a test file in the format of '@<line#,line#,...>'; if a test program comprises more than one file, then the particular file will be indicated by "fn", where "n" is the test-program name's file-designator numeral. E.g., "B38103E : @f1-31, ... " denotes test file b38103e1.ada. In cases where there are two or more rationales for different errors in a test program, these different rationales with their respective line citations are listed on separate lines. References to the Ada standards are given in the format:

<section|chapter>.<clause>[.<subclause>]:<paragraph>

These references are to the Ada standard as available at <http://www.adaic.org/resources/add-contentstandards/12rm/html/RM-TOC.html>.

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## Main list:

===== Core Language =====

Name	Category	Version label	(effective date; old version label)
C324001	[Allowed Modification]	New VCS Label: A4_0E	Org VCS Label: A4_0 Required after 2015-07-01 Eliminated overlong lines.
C324002	[Allowed Modification]	New VCS Label: A4_0F	Org VCS Label: A4_0 Required after 2015-10-01 [VCS Label A4_0E] Eliminated overlong lines. [VCS Label A4_0F] Replaced last test case (qualified expressions), as that check is required by the Corrigendum.
C324003	[Pending New]	New VCS Label: A4_0E	Required after 2015-10-01 Check that predicates are checked in the correct order and that the specified exception is raised.
C324004	[Pending New]	New VCS Label: A4_0F	Required after 2016-01-01 Check predicate checks are not performed for static and dynamic subtype predicates when the assertion policy is Ignore, but memberships, the Valid attribute, and for loops continue to use the predicates -- case A: global assertion policy pragmas
C324005	[Pending New]	New VCS Label: A4_0F	Required after 2016-01-01 Check predicate checks are not performed for static and dynamic subtype predicates when the assertion policy is Ignore, but

memberships, the Valid attribute, and for loops continue to use the predicates -- case B: specific assertion policy pragmas

- B393011 [Pending New] New VCS Label: A4\_0D  
Required after 2015-10-01  
Check that an abstract routine of an abstract partial view overridden by a non-abstract routine in the private part requires overriding when it is inherited if the private part is not visible where it is inherited.
- C391003 [Pending New] New VCS Label: A4\_0E  
Required after 2015-10-01  
[VCS Label A4\_0D] Check that a type extension can be declared in a more nested scope than its parent type, and that overridden subprograms of that extension can be dispatched to.  
[VCS Label A4\_0E] Eliminate an overlong line.
- C3A1003 [Pending New] New VCS Label: A4\_0E  
Required after 2015-10-01  
[VCS Label A4\_0D] Check that a dereference of an access-to-tagged-incomplete type can be passed as a parameter.  
[VCS Label A4\_0E] Eliminated overlong lines.
- C3A1004 [Pending New] New VCS Label: A4\_0E  
Required after 2015-10-01  
[VCS Label A4\_0D] Check that a parameter of a tagged incomplete type can be passed as a parameter.  
[VCS Label A4\_0E] Eliminated overlong lines.
- B3A1008 [Pending New] New VCS Label: A4\_0E  
Required after 2015-10-01  
[VCS Label A4\_0D] Check that a dereference of an access-to-incomplete type cannot be used as a prefix.  
[VCS Label A4\_0E] Eliminated overlong lines.
- B3A1009 [Pending New] New VCS Label: A4\_0E  
Required after 2015-10-01  
[VCS Label A4\_0D] Check that a dereference of an access-to-incomplete view cannot be used as a prefix. Check that a parameter of an incomplete view cannot be used as a prefix.  
[VCS Label A4\_0E] Eliminated overlong lines.
- B3A1010 [Pending New] New VCS Label: A4\_0D  
Required after 2015-10-01  
Check that a dereference of an access-to-formal incomplete type cannot be used as a prefix. Check that a parameter of a tagged formal incomplete type cannot be used as a prefix.
- C3A2004 [Pending New] New VCS Label: A4\_0C  
Required after 2015-07-01  
Check that the type of the prefix of 'Access is used to resolve the expected type of the use of the attribute.
- B3A2017 [Pending New] New VCS Label: A4\_0C  
Required after 2015-07-01  
[VCS Label A4\_0C] Check P'Access is not allowed in a generic body if P is declared in the generic (including in the parent of a child or in a formal package) and the access type is a formal type or outside of the generic.  
[VCS Label A4\_0E] Eliminated overlong lines.

B415001 [Pending New] New VCS Label: A4\_OF  
Required after 2016-01-01  
Check various rules associated with the specification of aspect  
Implicit\_Dereference.

B415002 [Pending New] New VCS Label: A4\_OF  
Required after 2016-01-01  
Check that the object denoted by a generalized reference cannot  
be used as a variable if the discriminant has an  
access-to-constant type.

C415001 [Allowed Modification] New VCS Label: A4\_OF Org VCS Label: A4\_0  
Required after 2015-10-01  
Expression @155-6 violates 6.4.1(6.17/3).

B416002 [Pending New] New VCS Label: A4\_OF  
Required after 2016-01-01  
Check that a generalized indexing is illegal in a variable context  
if no Variable\_Indexing is specified and Constant\_Indexing  
specifies a function returning an ordinary object.

B416A01 [Pending New] New VCS Label: A4\_OF  
Required after 2016-01-01  
When both Constant\_Indexing and Variable\_Indexing are  
specified, check that a generalized indexing is illegal if it is  
called in variable contexts when the prefix is a constant and  
Constant\_Indexing specifies a function returning an ordinary  
object.

C416A01 [Pending New] New VCS Label: A4\_OF  
Required after 2016-01-01  
Check that the name specified for a Constant\_Indexing or  
Variable\_Indexing aspect can refer to a set of overloaded  
functions, with two or more parameters, and that all of those  
functions can be used in a generalized indexing.

C416A02 [Pending New] New VCS Label: A4\_OF  
Required after 2016-01-01  
Check that the overloaded routines can be added to an inherited  
indexing aspect and the new routines can be used in a generalized  
indexing.

C431002 [Pending New] New VCS Label: A4\_OE  
Required after 2015-10-01  
[VCS Label A4\_0B] Check that a component association of others =>  
<> in a record or extension aggregate may have any number of  
associated components, including none. (Case 2: Null records and  
extensions.)  
[VCS Label A4\_0E] Eliminated overlong line.

B431005 [Pending New] New VCS Label: A4\_0B  
Required after 2015-07-01  
Check that a component association with an expression in a record  
or extension aggregate that have more than one associated  
component is illegal if the expression is illegal for any one of  
the associated components.

B431006 [Pending New] New VCS Label: A4\_OC  
Required after 2015-07-01  
Check that if a variant part is not nested in an unselected  
variant, the value of the governing discriminant of a variant in

a record aggregate cannot be non-static.

- C433002 [Pending New] New VCS Label: A4\_0E  
Required after 2015-10-01  
[VCS Label A4\_0B] Check that no array components can be outside of the index subtype for an array aggregate, even when the components are specified by <>.  
[VCS Label A4\_0E] Eliminated overlong lines.
- B433003 [Pending New] New VCS Label: A4\_0F  
Required after 2016-01-01  
Check that an others choice is not allowed in an array aggregate that is used as the return expression of an expression function or the expression of a return statement if the result subtype of the function is unconstrained.
- C433003 [Pending New] New VCS Label: A4\_0E  
Required after 2015-10-01  
[VCS Label A4\_0B] Check that for each association with a box in an array aggregate, the component is initialized by default (scalar types with Default\_Values).  
[VCS Label A4\_0E] Eliminated overlong lines.
- C433004 [Pending New] New VCS Label: A4\_0E  
Required after 2015-10-01  
[VCS Label A4\_0B] Check that for each association with a box in an array aggregate, the component is initialized by default (array types with Default\_Component\_Values).  
[VCS Label A4\_0E] Object 06 @136 expects the wrong result.  
Eliminated overlong lines.
- C433005 [Pending New] New VCS Label: A4\_0E  
Required after 2015-10-01  
[VCS Label A4\_0B] Check that the constraint of the constrained array subtype of a function return is used to determine the bounds of an array aggregate with an others choice in the expression of a return statement.  
[VCS Label A4\_0E] Eliminated overlong lines.
- C433006 [Pending New] New VCS Label: A4\_0F  
Required after 2016-01-01  
Check that the constraint of the constrained array subtype of a function return is used to determine the bounds of an array aggregate with an others choice in the return expression of an expression function.
- B457002 [Pending New] New VCS Label: A4\_0D  
Required after 2015-10-01  
Check that 'others' must be last and alone in a case expression.
- B457003 [Pending New] New VCS Label: A4\_0D  
Required after 2015-10-01  
Check that 'else' cannot be omitted for an if expression if the type of the expression is not a boolean type.
- B457004 [Pending New] New VCS Label: A4\_0E  
Required after 2015-10-01  
[VCS Label A4\_0D] Check that case choice coverage and staticness are enforced for case expressions.  
[VCS Label A4\_0E] Eliminated overlong lines.

B457005 [Pending New] New VCS Label: A4\_0D  
Required after 2015-10-01  
Check that all or none of the dependent expressions of a conditional expression can be dynamically tagged if the type of the expression is a specific tagged type.

B480002 [Pending New] New VCS Label: A4\_0E  
Required after 2015-10-01  
[VCS Label A4\_0D] Check that an initialized allocator for an access type with a class-wide designated type does not create an object whose type is more local than the access type.  
[VCS Label A4\_0E] Eliminated overlong lines and tab characters.

B480003 [Pending New] New VCS Label: A4\_0E  
Required after 2015-10-01  
[VCS Label A4\_0D] Check that an uninitialized allocator for an access type with a class-wide designated type does not create an object whose type is more local than the access type.  
[VCS Label A4\_0E] Eliminated overlong lines and tab characters.

C540002 [Allowed Modification] New VCS Label: A4\_0E Org VCS Label: A4\_0  
Required after 2015-07-01  
Eliminated overlong lines.

C550001 [Pending New] New VCS Label: A4\_0E  
Required after 2015-10-01  
[VCS Label A4\_0C] Check that for loops iterate properly over subtypes with static predicates.  
[VCS Label A4\_0E] Eliminated overlong lines.

B551001 [Pending New] New VCS Label: A4\_0E  
Required after 2015-10-01  
Check legality rules for aspect Default\_Iterator.

B551002 [Pending New] New VCS Label: A4\_0E  
Required after 2015-10-01  
Check legality rules for aspect Iterator\_Element.

B552001 [Pending New] New VCS Label: A4\_0E  
Required after 2015-10-01  
Check legality rules for array component iterators from the 2015 Corrigendum.

C552001 [Pending New] New VCS Label: A4\_0E  
Required after 2015-10-01  
Check correct operation of array component iterators.

C552002 [Pending New] New VCS Label: A4\_0E  
Required after 2015-10-01  
Check correct operation of array component iterators where the array has convention Fortran.

C552A01 [Allowed Modification] New VCS Label: A4\_0E Org VCS Label: A4\_0  
Required after 2015-07-01  
Eliminated violations of ACATS lexical rules.

C552A02 [Allowed Modification] New VCS Label: A4\_0E Org VCS Label: A4\_0  
Required after 2015-07-01  
Eliminated violations of ACATS lexical rules.

B552A04 [Pending New] New VCS Label: A4\_0E

- Required after 2015-10-01  
Check legality rules for container element iterators (most of the checked rules are from the 2015 Corrigendum).
- B552A05 [Pending New] New VCS Label: A4\_0E  
Required after 2015-10-01  
Check legality rules for generalized iterators from the 2015 Corrigendum).
- B640001 [Pending New] New VCS Label: A4\_0E  
Required after 2015-10-01  
[VCS Label A4\_0C] Check that abstract nondispatching operations do not participate in resolution.  
[VCS Label A4\_0E] Eliminated overlong lines and tab characters.
- C640002 [Pending New] New VCS Label: A4\_0E  
Required after 2015-10-01  
[VCS Label A4\_0C] Check that an abstract nondispatching operator provides a way to eliminate an unwanted predefined operator.  
[VCS Label A4\_0E] Eliminate overlong lines.
- B650005 [Pending New] New VCS Label: A4\_0C  
Required after 2015-07-01  
Check that the accessibility level of the return subtype indication of an extended return statement cannot be statically deeper than that of the function result if that result is class-wide.
- B650006 [Pending New] New VCS Label: A4\_0C  
Required after 2015-07-01  
Check that an extended return statement with a constant return object cannot omit the initializing expression.
- B730009 [Allowed Modification] New VCS Label: A4\_0E Org VCS Label: A4\_0  
Required after 2015-07-01  
Completion of Priv12 @131 violates 7.3(10.1/3).
- B730010 [Pending New] New VCS Label: A4\_0E  
Required after 2015-10-01  
Check 7.3(10.1/3).
- B732001 [Pending New] New VCS Label: A4\_0E  
Required after 2015-10-01  
[VCS Label A4\_0D] Check various resolution and legality rules for aspect Type\_Invariant.  
[VCS Label A4\_0E] Length @80 should have return type Natural. Changed Is\_Valid to Is\_Clean @95, 97, 146 so that the inherited routine doesn't come into play.
- C732001 [Pending New] New VCS Label: A4\_0E  
Required after 2015-10-01  
[VCS Label A4\_0D] Check that assertion checks are made after assignments to and calls with actuals of appropriate view conversions.  
[VCS Label A4\_0E] Eliminated overlong lines.
- C732002 [Pending New] New VCS Label: A4\_0F  
Required after 2016-01-01  
Check some differences between specific and class-wide type invariants.

C732A01 [Pending New] New VCS Label: A4\_0E  
Required after 2015-10-01  
[VCS Label A4\_0D] Check that the failure of a Type\_Invariant check raises Assertion\_Error (constrained array).  
[VCS Label A4\_0E] Eliminated overlong lines.

C732A02 [Pending New] New VCS Label: A4\_0F  
Required after 2016-01-01  
Check that the failure of a Type\_Invariant check raises Assertion\_Error (part of unconstrained array).

C732B01 [Pending New] New VCS Label: A4\_0F  
Required after 2016-01-01  
Check that the failure of a Type\_Invariant check raises Assertion\_Error (discriminated record).

C732B02 [Pending New] New VCS Label: A4\_0F  
Required after 2016-01-01  
Check that the failure of a Type\_Invariant check raises Assertion\_Error (access-to-record).

B732C01 [Pending New] New VCS Label: A4\_0E  
Required after 2015-10-01  
[VCS Label A4\_0D] Check that the aspect Type\_Invariant can only be specified on private types, private extensions, and full types that complete one of the others.  
[VCS Label A4\_0E] Eliminate overlong lines.

C732C01 [Pending New] New VCS Label: A4\_0D  
Required after 2015-10-01  
[VCS Label A4\_0D] Check that the failure of a Type\_Invariant check raises Assertion\_Error (tagged record).  
[VCS Label A4\_0E] Eliminated overlong lines.

B732C02 [Pending New] New VCS Label: A4\_0E  
Required after 2015-10-01  
[VCS Label A4\_0D] Check that the aspect Type\_Invariant'Class can only be specified on private types, private extensions, and interfaces.  
[VCS Label A4\_0E] Eliminate overlong lines.

C760014 [Pending New] New VCS Label: A4\_0A  
Required after 2015-04-01  
Check that Ada.Finalization is declared pure.

C760015 [Pending New] New VCS Label: A4\_0E  
Required after 2015-10-01  
[VCS Label A4\_0D] Check that a controlled type can be declared within a subprogram.  
[VCS Label A4\_0E] Eliminate overlong lines.

C831001 [Pending New] New VCS Label: A4\_0F  
Required after 2016-01-01  
Check that overriding indicators do not change the dynamic effect of calls.

B831004 [Pending New] New VCS Label: A4\_0F  
Required after 2016-01-01  
Check that overriding indicators are properly enforced for types derived from a generic formal type. (Nested generic specification cases.)



B831005 [Pending New] New VCS Label: A4\_0F  
Required after 2016-01-01  
Check that overriding indicators are properly enforced for types derived from a generic formal type. (Library unit and body cases.)

B840002 [Pending New] New VCS Label: A4\_0F  
Required after 2016-01-01  
Check a package use clause cannot denote a limited view or a non-package.

B840003 [Pending New] New VCS Label: A4\_0F  
Required after 2016-01-01  
Check a use all type clause does not make non-primitives or class-wide operations that aren't directly declare where a primitive operation would be visible.

BA12017 [Pending New] New VCS Label: A4\_0E  
Required after 2015-10-01  
[VCS Label A4\_0C] Check that a limited with clause is not allowed on a descendant of the named package.  
[VCS Label A4\_0E] Eliminated overlong line.

BA15003 [Pending New] New VCS Label: A4\_0C  
Required after 2015-07-01  
Check that a library unit pragma must apply to a library unit.

CA21002 [Pending New] New VCS Label: A4\_0E  
Required after 2015-10-01  
Check that Pure and Preelaborate aspects can be specified with an object declared in another package.

CB30001 [Pending New] New VCS Label: A4\_0B  
Required after 2015-07-01  
Check that the optional message parameter is supported in a raise statement, and that the message can be retrieved with `Exception_Message`.

CB30002 [Pending New] New VCS Label: A4\_0E  
Required after 2015-10-01  
[VCS Label A4\_0B] Check that the optional message parameter is supported in a raise expression, and that the message can be retrieved with `Exception_Message`.  
[VCS Label A4\_0E] Eliminated overlong lines and tab characters.

CC30003 [Allowed Modification] New VCS Label: A4\_0E Org VCS Label: A4\_0  
Required after 2015-07-01  
Eliminated overlong lines.

CC30004 [Allowed Modification] New VCS Label: A4\_0E Org VCS Label: A4\_0  
Required after 2015-07-01  
Eliminated overlong lines and tab characters.

CC51010 [Pending New] New VCS Label: A4\_0D  
Required after 2015-10-01  
[VCS Label A4\_0D] Check that a generic unit with a tagged incomplete formal type can be instantiated with an incomplete view of a type from a limited withed package, and that operations in the instance can be used normally when the full view of the type is visible.  
[VCS Label A4\_0E] Added constructor function to generic, as

Elem'Unchecked\_Access is illegal when Elem is incomplete. Moved body of CC51010\_2 so it compiles after another package on which it depends.

- BC60001 [Pending New] New VCS Label: A4\_OC  
Required after 2015-07-01  
Test rules associated with formal subprogram defaults of null.
- CC60001 [Pending New] New VCS Label: A4\_OG  
Required after 2016-01-01  
Check that calls on a formal abstract subprogram are dispatching.
- BC60002 [Pending New] New VCS Label: A4\_OG  
Required after 2016-01-01  
Test rules associated with the controlling type of a formal abstract subprogram.
- BC60003 [Pending New] New VCS Label: A4\_OG  
Required after 2016-01-01  
Check that the actual subprogram for a formal abstract subprogram must be a dispatching operation of the controlling type.
- BC60004 [Pending New] New VCS Label: A4\_OG  
Required after 2016-01-01  
Check that a call on a formal abstract subprogram must be dispatching.
- CD30006 [Allowed Modification] New VCS Label: A4\_0E Org VCS Label: A4\_0  
Required after 2015-07-01  
Eliminated overlong lines and tab characters.
- CD30007 [Allowed Modification] New VCS Label: A4\_0E Org VCS Label: A4\_0  
Required after 2015-07-01  
Eliminated overlong lines.
- BDB3A01 [Pending New] New VCS Label: A4\_0E  
Required after 2015-10-01  
[VCS Label A4\_0B] Test resolution and legality rules for pragma and aspect Default\_Storage\_Pool.  
[VCS Label A4\_0E] Declaration of Pool @53 is missing the TC\_Id discriminant.
- CDB3A01 [Pending New] New VCS Label: A4\_0E  
Required after 2015-10-01  
[VCS Label A4\_0B] Test that aspect Default\_Storage\_Pool changes the default storage pool for a generic instantiation.  
[VCS Label A4\_0E] Eliminated overlong line.
- BDD2004 [Allowed Modification] New VCS Label: A4\_0E Org VCS Label: A4\_0  
Required after 2015-07-01  
[VCS Label A4\_0B] Error @229 is legal by AI12-0121-1.  
[VCS Label A4\_0E] Eliminated overlong lines.
- BDD2005 [Allowed Modification] New VCS Label: A4\_0E Org VCS Label: A4\_0  
Required after 2015-07-01  
[VCS Label A4\_0B] Replaced test cases waiting on AI12-0106-1 (now approved) and made changes required by AI12-0121-1.  
[VCS Label A4\_0E] Eliminated overlong lines.
- CXA4037 [Pending New] New VCS Label: A4\_OF  
Required after 2016-01-01

Check Ada.Strings.Fixed.Find-Token against rule from 2001  
Corrigendum.

- CXA5016 [Pending New] New VCS Label: A4\_0E  
Required after 2015-10-01  
[VCS Label A4\_0C] Check operation of attribute Machine\_Rounding.  
[VCS Label A4\_0E] Eliminated overlong lines.
- CXAA021 [Pending New] New VCS Label: A4\_0C  
Required after 2015-07-01  
Check file operations of Text\_IO.Bounded\_IO.
- CXAA022 [Pending New] New VCS Label: A4\_0C  
Required after 2015-07-01  
Check file operations of Text\_IO.Unbounded\_IO.
- CXAB002 [Pending New] New VCS Label: A4\_0C  
Required after 2015-07-01  
Check file operations of Wide\_Text\_IO.Wide\_Bounded\_IO.
- CXAB003 [Pending New] New VCS Label: A4\_0C  
Required after 2015-07-01  
Check file operations of Wide\_Wide\_Text\_IO.Wide\_Wide\_Bounded\_IO.
- CXAB004 [Pending New] New VCS Label: A4\_0C  
Required after 2015-07-01  
Check file operations of Wide\_Text\_IO.Wide\_Unbounded\_IO.
- CXAB005 [Pending New] New VCS Label: A4\_0C  
Required after 2015-07-01  
Check file operations of Wide\_Wide\_Text\_IO.Wide\_Wide\_Unbounded\_IO.
- CXAC008 [Pending New] New VCS Label: A4\_0E  
Required after 2015-10-01  
[VCS Label A4\_0C] Check that Stream\_IO files opened with mode  
Out\_File are not truncated by Close or Reset.  
[VCS Label A4\_0D] Corrected required file size in subtest 8, and  
various failure messages.  
[VCS Label A4\_0E] Eliminated overlong lines.
- CXAG001 [Pending New] New VCS Label: A4\_0E  
Required after 2015-10-01  
Check that Ada.Directories can be used to create and delete  
directories.
- CXAG002 [Pending New] New VCS Label: A4\_0E  
Required after 2015-10-01  
Check that Ada.Directories.Hierarchical\_File\_Names exists and  
works as expected.
- CXAH001 [Pending New] New VCS Label: A4\_0E  
Required after 2015-10-01  
[VCS Label A4\_0D] Test that package Environment\_Variables can be  
used to read environment variables.  
[VCS Label A4\_0E] Added missing Applicability Criteria.
- CXAH002 [Pending New] New VCS Label: A4\_0E  
Required after 2015-10-01  
[VCS Label A4\_0D] Test that package Environment\_Variables can be  
used to modify environment variables.  
[VCS Label A4\_0E] Added missing Applicability Criteria.

CXAH003 [Pending New] New VCS Label: A4\_0E  
Required after 2015-10-01  
[VCS Label A4\_0D] Test the two parameter Value in package  
Environment\_Variables.  
[VCS Label A4\_0E] Added missing Applicability Criteria.

BXAI001 [Pending New] New VCS Label: A4\_0B  
Required after 2015-07-01  
Test that package Hashed\_Maps does not allow reverse iterators.

BXAI002 [Pending New] New VCS Label: A4\_0B  
Required after 2015-07-01  
Test that package Hashed\_Sets does not allow reverse iterators.

BXAI003 [Pending New] New VCS Label: A4\_0B  
Required after 2015-07-01  
Test that package Bounded\_Hashed\_Maps does not allow reverse  
iterators.

BXAI004 [Pending New] New VCS Label: A4\_0B  
Required after 2015-07-01  
Test that package Bounded\_Hashed\_Sets does not allow reverse  
iterators.

BXAI005 [Pending New] New VCS Label: A4\_0E  
Required after 2015-10-01  
[VCS Label A4\_0B] Test that package Hashed\_Sets does not allow  
direct writing of set elements.  
[VCS Label A4\_0E] Eliminated overlong lines.

BXAI006 [Pending New] New VCS Label: A4\_0E  
Required after 2015-10-01  
[VCS Label A4\_0B] Test that package Ordered\_Sets does not allow  
direct writing of set elements.  
[VCS Label A4\_0E] Eliminated overlong lines.

BXAI007 [Pending New] New VCS Label: A4\_0E  
Required after 2015-10-01  
[VCS Label A4\_0B] Test that package Bounded\_Hashed\_Sets does not  
allow direct writing of set elements.  
[VCS Label A4\_0E] Eliminated overlong lines.

BXAI008 [Pending New] New VCS Label: A4\_0E  
Required after 2015-10-01  
[VCS Label A4\_0B] Test that package Bounded\_Ordered\_Sets does not  
allow direct writing of set elements.  
[VCS Label A4\_0E] Eliminated overlong lines.

BXAIA01 [Pending New] New VCS Label: A4\_0B  
Required after 2015-07-01  
Test that package Indefinite\_Hashed\_Maps does not allow reverse  
iterators.

BXAIA02 [Pending New] New VCS Label: A4\_0B  
Required after 2015-07-01  
Test that package Indefinite\_Hashed\_Set does not allow reverse  
iterators.

BXAIA03 [Pending New] New VCS Label: A4\_0E  
Required after 2015-10-01

[VCS Label A4\_0B] Test that package Indefinite\_Hashed\_Sets does not allow direct writing of set elements.  
[VCS Label A4\_0E] Eliminated overlong lines.

BXAIA04 [Pending New] New VCS Label: A4\_0E  
Required after 2015-10-01  
[VCS Label A4\_0B] Test that package Indefinite\_Ordered\_Sets does not allow direct writing of set elements.  
[VCS Label A4\_0E] Eliminated overlong lines.

CXAI027 [Modified] VCS Label: A4\_0B  
Corrected the name of the package that is reported as being tested.

BXB3001 [Pending New] New VCS Label: A4\_0F  
Required after 2016-01-01  
Check B.3.3(8/2).

BXB3002 [Pending New] New VCS Label: A4\_0F  
Required after 2016-01-01  
Check B.3.3(9/3).

BXB3003 [Pending New] New VCS Label: A4\_0F  
Required after 2016-01-01  
Check B.3.3(11/2).

BXB3004 [Pending New] New VCS Label: A4\_0F  
Required after 2016-01-01  
Check that rules for the application of aspect Unchecked\_Union are enforced.

CXB3019 [Pending New] New VCS Label: A4\_0F  
Required after 2016-01-01  
Check B.3.3(23/2).

CXB3020 [Pending New] New VCS Label: A4\_0F  
Required after 2016-01-01  
Check B.3.3(24/2).

CXB3021 [Pending New] New VCS Label: A4\_0F  
Required after 2016-01-01  
Check B.3.3(25/2).

CXB3022 [Pending New] New VCS Label: A4\_0F  
Required after 2016-01-01  
Check B.3.3(26/2).

==== Annex C ====

[None.]

==== Annex D ====

[None.]

==== Annex E ====

[None.]

==== Annex F ====

[None.]

===== Annex G =====

[None.]

===== Annex H =====

[None.]

===== Support =====

F416A00 [Pending New] New VCS Label: A4\_OF  
Required after 2016-01-01  
Foundation for tests B416A01, C416A01, and C416A02.

F732A00 [Pending New] New VCS Label: A4\_OE  
Required after 2015-10-01  
[VCS Label A4\_OD] Foundation for test C732A01.  
[VCS Label A4\_OE] Eliminated overlong lines.

F732A00 [Allowed Modification] New VCS Label: A4\_OF Org VCS Label: A4\_OE  
Required after 2016-01-01  
[VCS Label A4\_OF] Added types and operations to support test  
C732A02. They are only needed for that test.

F732B00 [Pending New] New VCS Label: A4\_OF  
Required after 2016-01-01  
Foundation for tests C732B01 and C732B02.

F732C00 [Pending New] New VCS Label: A4\_OE  
Required after 2015-10-01  
[VCS Label A4\_OD] Foundation for tests B732C01, B732C02, and  
C732C01.  
[VCS Label A4\_OE] Eliminated overlong lines.

FDB3A00 [Pending New] New VCS Label: A4\_OE  
Required after 2015-10-01  
[VCS Label A4\_OB] Foundation for test BDB3A01 and CDB3A01.  
[VCS Label A4\_OE] Eliminated overlong line.

IMPDEF [Allowed Modification] New VCS Label: A4\_OE Org VCS Label: A4\_0  
Required after 2015-07-01  
[VCS Label A4\_OD] Added constants for the names of environment  
variables used by tests CXAH001, CXAH002, and CXAH003. Also  
removed obsolete .AW file constants (these are not used as test  
source has been provided in UTF-8 format since the release of  
ACATS 3.0). The change is only needed for those tests, it has no  
effect on any other tests.  
[VCS Label A4\_OE] Added a constant and function used by tests  
CXAG001 and CXAG002. The change is only needed for those tests,  
it has no effect on any other tests.

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**How to get new and modified tests:**

The official home of the ACATS test suite is the ACAA web site. The site can be accessed at [www.ada-auth.org](http://www.ada-auth.org).

The complete set of official new and modified tests are available in the Mod\_4\_0G.Zip and Tar files on the ACAA web site.

Individual new and modified tests can be retrieved from the ACATS VCS. Simply navigate to the appropriate directory (folder), and select the test you want. Select the revision you want (usually the most recent) and it will be retrieved for you. Tests are stored in directories that correspond to the test's prefix. For instance, the test CD92001.A will be found in the CD directory. You can also browse the differences between versions of a test. [In case of a conflict, the files in the ACATS VCS should be considered the 'official' versions.]

If you cannot get the files from the official site or you cannot get the files in a format appropriate for your processor, please contact your ACAL.

The baseline ACATS 4.0 is available in various formats on the ACAA web site.

### **Summary lists:**

#### **Withdrawn Tests**

(Refer to the main list for details)

B43102A

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#### **Allowed Modification Tests**

(Refer to the main list for details)

B730009	2015-07-01	
BDD2004	2015-07-01	
BDD2005	2015-07-01	
C324001	2015-07-01	
C324002	2015-10-01	
C415001	2015-10-01	
CC30003	2015-07-01	
CC30004	2015-07-01	
CD30006	2015-07-01	
CD30007	2015-07-01	
IMPDEF	2015-07-01	[Only needed for new tests CXAG001, CXAG0002, CXAH001, CXAH002, and CXAH003]

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#### **Modified Tests**

(Refer to the main list for details)

CXAI027

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#### **New Tests**

(Refer to the main list for details)

None .

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### **Pending New Tests**

(Refer to the main list for details)

B393011	2015-10-01
B3A1008	2015-10-01
B3A1009	2015-10-01
B3A1010	2015-10-01
B3A2017	2015-10-01
B415001	2016-01-01
B415002	2016-01-01
B416002	2016-01-01
B416A01	2016-01-01
B431005	2015-07-01
B431006	2015-07-01
B433003	2016-01-01
B457002	2015-10-01
B457003	2015-10-01
B457004	2015-10-01
B457005	2015-10-01
B480002	2015-10-01
B480003	2015-10-01
B551001	2015-10-01
B551002	2015-10-01
B552001	2015-10-01
B552A04	2015-10-01
B552A05	2015-10-01
B640001	2015-07-01
B650005	2015-07-01
B650006	2015-07-01
B730010	2015-10-01
B732001	2015-10-01
B732C01	2015-10-01
B732C02	2015-10-01
B831004	2016-01-01
B831005	2016-01-01
B840002	2016-01-01
B840003	2016-01-01
BA12017	2015-10-01
BA15003	2015-07-01
BC60001	2015-07-01
BC60002	2016-01-01
BC60003	2016-01-01
BC60004	2016-01-01
BDB3A01	2015-10-01
BXAI001	2015-07-01
BXAI002	2015-07-01
BXAI003	2015-07-01
BXAI004	2015-07-01
BXAI005	2015-10-01
BXAI006	2015-10-01
BXAI007	2015-10-01
BXAI008	2015-10-01



BXAIA01	2015-07-01
BXAIA02	2015-07-01
BXAIA03	2015-10-01
BXAIA04	2015-10-01
BXB3001	2016-01-01
BXB3002	2016-01-01
BXB3003	2016-01-01
BXB3004	2016-01-01
C324003	2015-10-01
C324004	2016-01-01
C324005	2016-01-01
C3A1003	2015-10-01
C3A1004	2015-10-01
C3A2004	2015-07-01
C416A01	2016-01-01
C416A02	2016-01-01
C431002	2015-10-01
C433002	2015-10-01
C433003	2015-10-01
C433004	2015-10-01
C433005	2015-10-01
C433006	2016-01-01
C550001	2015-10-01
C552001	2015-10-01
C552002	2015-10-01
C640002	2015-10-01
C732001	2015-10-01
C732002	2016-01-01
C732A01	2015-10-01
C732A02	2016-01-01
C732B01	2016-01-01
C732B02	2016-01-01
C732C01	2015-10-01
C760014	2015-04-01
C760015	2015-10-01
C831001	2016-01-01
CA21002	2015-10-01
CB30001	2015-07-01
CB30002	2015-10-01
CC51010	2015-10-01
CC60001	2016-01-01
CDB3A01	2015-10-01
CXA4037	2016-01-01
CXA5016	2015-07-01
CXAA021	2015-07-01
CXAA022	2015-07-01
CXAB002	2015-07-01
CXAB003	2015-07-01
CXAB004	2015-07-01
CXAB005	2015-07-01
CXAC008	2015-10-01
CXAG001	2015-10-01
CXAG002	2015-10-01
CXAH001	2015-10-01
CXAH002	2015-10-01
CXAH003	2015-10-01
CXB3019	2016-01-01
CXB3020	2016-01-01
CXB3021	2016-01-01
CXB3022	2016-01-01
F416A00	2016-01-01

F732A00	2015-10-01
F732B00	2016-01-01
F732C00	2015-10-01
FDB3A00	2015-10-01