

ACATS Modification List for ACATS 3.1

Version 3.1Q
March 31, 2017

What is this?

This is the ACATS modification list for ACATS 3.1. This document includes test corrections, test removals, and new tests for ACATS 3.1. ACATS 3.1 is the current test suite for the version of Ada that became current with the approval and publication of Amendment 1 by ISO as ISO/IEC 8652:1995/AMD 1:2007 (often known as "Ada 2005").

ACATS Modification List version 2.6E for ACATS 2.6 is the current list for that test suite. ACATS 2.6 should be used for testing Ada 95 implementations, and will continue to be maintained as necessary for the foreseeable future.

ACATS Modification List version 4.1D is the current list for ACATS 4.1. ACATS 4.1 should be used for testing the third edition of Ada, ISO/IEC 8652:2012 (usually known as "Ada 2012").

Changes from the last list:

Test C352001 had a Failed message that reflected Ada 95 requirements rather than the Ada 2005 requirements that are tested for. This is confusing, so it was corrected.

New tests B354002 and C354004 test the basic requirements for the Mod attribute.

New test C453001 checks that modular adding operators wrap around for various user-defined and language-defined types.

Modified test C480001 so that it didn't have any **in out** parameters in functions, as it is supposed to be valid for both Ada 2005 and Ada 2012.

New tests B651001 and C651001 check pragma No_Return.

Test B74203E used a number of attributes that are not defined in Ada 95, thus failing to test the objective. It was replaced by test B730013, which tests additional cases including attributes added by Ada 95.

A number of (very old) tests were withdrawn as their objectives and code are nearly identical to other tests. Such tests serve no purpose other than making the ACATS take longer to process. The tests in question are:

CD1009A has the same objective as one of the objectives of CD2A31C.

CD1009B has the same objective as one of the objectives of CD2A21C.

CD1009L has the same objective as CD2D13A.

CD1009M has the same objective and code layout as CD3014C.

Tests CD2A21C and CD2A31C were also withdrawn to be replaced by new tests CD30011 and CD30012, respectively. The new tests ensure that none of the checks of the withdrawn tests are lost, while adding applicability criteria and modern formatting.

New tests posted between January 1, 2017 and March 31, 2017 will become required for conformity assessments on October 1, 2017. New tests posted between October 1, 2016 and December 31, 2016 will become required for conformity assessments on July 1, 2017. New tests posted between July 1, 2016 and September 30, 2016 will become required for conformity assessments on April 1, 2017. New tests inserted between October 1, 2013 and June 30, 2016 are now required for conformity assessments. All other tests previously inserted into ACATS 3.0 are part of ACATS 3.1 and are required for conformity assessment. The effective dates of tests are marked in the lists.

Questions about this document? Contact the ACAA Technical Agent at agent@ada-auth.org.

Ada 2012 compatibility:

This test suite is designed for Ada 2005. ACATS 4.1 should be used to test Ada 2012 implementations. There are a significant number of tests in ACATS 3.1 that are incompatible with the requirements of Ada 2012.

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 consolidated Ada standard as available at <http://www.adaic.org/resources/add-contentstandards/05rm/html/RM-TOC.html>.

Main list:

==== Core Language =====

Name	Category	Version label	(effective date; old version label)
C352001	[Allowed Modification]	New VCS Label: A3_1Q Required after 2017-07-01	Org VCS Label: A3_1 Corrected Failed message @267 to reflect intended result.
B354002	[Pending New]	New VCS Label: A3_1Q Required after 2017-10-01	Test basic requirements for the Mod attribute.

C354004 [Pending New] New VCS Label: A3_1Q
Required after 2017-10-01
Test basic operation of the Mod attribute.

B38003D [Modified] VCS Label: A3_1M
Corrected error tags @70,76,82,88 so "optional" and "error" are
on the same line, as required by the test standards.

B38105A [Withdrawn] Org VCS Label: A3_1B
Replaced by tests B3A1007 and B3A1A05 (and existing tests B3A1A01
and B3A1A02).

C390012 [New] VCS Label: A3_1J
Check the operation of Ada.Tags.Generic_Dispatching_Constructor.

C391003 [New] VCS Label: A3_1F
[VCS Label A3_1E] 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 A3_1F] Eliminated an overlong line.

B393005 [Modified] VCS Label: A3_1B
Declaration @114 is illegal because it inherits an abstract
function that is not overridden, as described in AI05-0097-1.

B393011 [New] VCS Label: A3_1E
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.

C3A0030 [New] VCS Label: A3_1L
Check that an access discriminant is only null excluding if it
includes a null exclusion.

B3A1001 [Modified] VCS Label: A3_1M
[VCS Label A3_1B] Type UT1_@78 is supposed to be tagged
incomplete, else it's the same as type U1.
[VCS Label A3_1M] Split Pack6 so possible error sets don't
intersect; fixed overlong lines.

B3A1002 [Modified] VCS Label: A3_1M
[VCS Label A3_1B] Type UT1_@77 is supposed to be tagged
incomplete, else it's the same as type U1.
[VCS Label A3_1M] Split Pack6 so possible error sets don't
intersect; fixed overlong lines.

C3A1003 [New] VCS Label: A3_1E
Check that a dereference of an access-to-tagged-incomplete type
can be passed as a parameter.

C3A1004 [New] VCS Label: A3_1E
Check that a parameter of a tagged incomplete type can be passed
as a parameter.

B3A1007 [New] VCS Label: A3_1B
Check that constraints and exclusions aren't allowed on an
incomplete type in access type and subtype declarations.

B3A1008 [New] VCS Label: A3_1F

[VCS Label A3_1E] Check that a dereference of an access-to-incomplete type cannot be used as a prefix.
[VCS Label A3_1F] Eliminated overlong lines.

B3A1009 [New] VCS Label: A3_1F

[VCS Label A3_1E] 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 A3_1F] Eliminated overlong lines.

B3A1A05 [New] VCS Label: A3_1B

Check that generic formal objects cannot be declared with an incomplete view.

C3A2004 [New] VCS Label: A3_1D

Check that the type of the prefix of 'Access is used to resolve the expected type of the use of the attribute.

B3A2017 [New] VCS Label: A3_1F

[VCS Label A3_1D] 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 A3_1F] Eliminated overlong lines.

B431006 [New] VCS Label: A3_1D

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.

B43102A [Withdrawn] VCS Label: A3_1D

Replaced by B431006.

C453001 [Pending New] New VCS Label: A3_1Q

Required after 2017-10-01

Check that modular adding operators wrap around rather than raising Constraint_Error.

B455002 [Modified] VCS Label: A3_1M

Corrected casing of error tags and fixed overlong lines.

C460014 [Pending New] New VCS Label: A3_1P

Required after 2017-10-01

Check that Constraint_Error is raised appropriately when converting access-to-classwide to another access type.

C460015 [Pending New] New VCS Label: A3_1P

Required after 2017-10-01

Check that Constraint_Error is raised appropriately when converting access-to-limited-classwide to another access type.

C480001 [New] VCS Label: A3_1L

Check that an initialized allocator for a class-wide type does an accessibility check on the tag of the initializing object.

C480001 [Allowed Modification] New VCS Label: A3_1Q Org VCS Label: A3_1L

Required after 2017-07-01

Changed mode to "in" (instead of "in out") @103 & 144 as those parameters are used in functions, making that an Ada 2012 feature, and this is an Ada 2005 test.

B480002 [New] VCS Label: A3_1F
[VCS Label A3_1E] 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 A3_1F] Eliminate overlong lines and tab characters.

B480003 [New] VCS Label: A3_1L
[VCS Label A3_1E] 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 A3_1F] Eliminate overlong lines and tab characters.
[VCS Label A3_1L] Corrected test objective and test description; the test code is unmodified.

C52101A [Modified] VCS Label: A3_1M
Corrected comment @49 not to have the form of an error tag.

B540002 [New] VCS Label: A3_1B
Check that case statement coverage rules are enforced for modular types.

C540002 [New] VCS Label: A3_1B
Check that the selecting_expression of a case statement can be resolved using the requirement that it be any discrete type.

C540002 [Modified] VCS Label: A3_1F
Eliminated overlong lines.

C620001 [New] VCS Label: A3_1B
Check that elementary types are passed by-copy.

B62001C [Modified] VCS Label: A3_1M
Changed error @35 to be optional, as the syntax error @33 is required (and the comment that only one error need be detected is bogus).

B62001D [Modified] VCS Label: A3_1M
Changed error @41 to be optional, as the syntax error @33 is required (and the comment that only one error need be detected is bogus).

C62003A [Withdrawn] Org VCS Label: A3_1B
Replaced by test C620001.

B640001 [New] VCS Label: A3_1F
[VCS Label A3_1D] Check that abstract nondispatching operations do not participate in resolution.
[VCS Label A3_1F] Eliminate overlong lines and tab characters.

C640002 [New] VCS Label: A3_1F
[VCS Label A3_1D] Check that an abstract nondispatching operator provides a way to eliminate an unwanted predefined operator.
[VCS Label A3_1F] Eliminate overlong lines.

B65005A [Allowed Modification] New VCS Label: A3_1P Org VCS Label: A3_1
Required after 2017-07-01
Added additional error locations to directly support common error reporting strategies.

B65005B [Allowed Modification] New VCS Label: A3_1P Org VCS Label: A3_1
Required after 2017-07-01

Added additional error locations to directly support common error reporting strategies.

- B651001 [Pending New] New VCS Label: A3_1Q
Required after 2017-10-01
Check that a return statement cannot apply to a nonreturning procedure, and that a renames-as-body of a nonreturning procedure has to be a nonreturning procedure (pragma No_Return version).
- C651001 [Pending New] New VCS Label: A3_1Q
Required after 2017-10-01
Check that a nonreturning procedure can raise an exception and raises Program_Error otherwise (pragma No_Return version).
- C660001 [New] VCS Label: A3_1B
Check that a matching "/=" is defined for an explicitly declared "=" operator with a result of Boolean.
- B730006 [Allowed Modification] New VCS Label: A3_1P Org VCS Label: A3_1
Required after 2017-07-01
Corrected format of error tags; added location indicators.
- B730008 [New] VCS Label: A3_1A
Check that a tagged partial view and its completion must have the same set of interfaces.
- B730009 [New] VCS Label: A3_1F
[VCS_Label A3_1A] Check that a tagged partial view can be synchronized if and only if the completion is a synchronized type.
[VCS_Label A3_1F] Completion of Priv12 @131 violates 7.3(10.1/3).
- B730010 [New] VCS Label: A3_1F
Check 7.3(10.1/3).
- B730011 [Pending New] New VCS Label: A3_1P
Required after 2017-10-01
Test various rules about completions of private types and extensions; replaces test B74001A.
- B730012 [Pending New] New VCS Label: A3_1P
Required after 2017-10-01
Test various rules about completions of private types and extensions in generic units; replaces test B74001B.
- B730013 [Pending New] New VCS Label: A3_1Q
Required after 2017-10-01
Test operations available for a private type; replaces test B74203E.
- B73001A [Allowed Modification] New VCS Label: A3_1P Org VCS Label: A3_1
Required after 2017-07-01
Added additional error locations to directly support common error reporting strategies.
- B73001B [Allowed Modification] New VCS Label: A3_1P Org VCS Label: A3_1
Required after 2017-07-01
Added additional error locations to directly support common error reporting strategies.
- B73001C [Allowed Modification] New VCS Label: A3_1P Org VCS Label: A3_1
Required after 2017-07-01

Added additional error locations to directly support common error reporting strategies.

B73001D [Allowed Modification] New VCS Label: A3_1P Org VCS Label: A3_1
Required after 2017-07-01
Added additional error locations to directly support common error reporting strategies.

B73001E [Allowed Modification] New VCS Label: A3_1P Org VCS Label: A3_1
Required after 2017-07-01
Added additional error locations to directly support common error reporting strategies.

B73001F [Allowed Modification] New VCS Label: A3_1P Org VCS Label: A3_1
Required after 2017-07-01
Added additional error locations to directly support common error reporting strategies.

B73001G [Allowed Modification] New VCS Label: A3_1P Org VCS Label: A3_1
Required after 2017-07-01
Added additional error locations to directly support common error reporting strategies.

B73001H [Allowed Modification] New VCS Label: A3_1P Org VCS Label: A3_1
Required after 2017-07-01
Added additional error locations to directly support common error reporting strategies.

B740003 [Modified] VCS Label: A3_1M
Modified criteria @75 so that it doesn't look like an error tag to the grading tools; also fixed an overlong line.

B74001A [Withdrawn] VCS Label: A3_1P
Replaced by B730011.

B74001B [Withdrawn] VCS Label: A3_1P
Replaced by B730012.

B74203E [Withdrawn] VCS Label: A3_1Q
Replaced by B730013.

B750A01 [Modified] VCS Label: A3_1J
The qualification @129 should be for Lim_Ext, not Lim_Rec.

B750A02 [Modified] VCS Label: A3_1J
The qualification @131 should be for Lim_Ext, not Lim_Rec.

B750A04 [New] VCS Label: A3_1J
Check that only legal expressions are allowed in the qualified expression of an allocator for a limited object.

B750A06 [New] VCS Label: A3_1J
Check that only legal expressions are allowed in the expression of a simple return statement for a function that returns a limited type.

C760015 [New] VCS Label: A3_1L
[VCS Label A3_1E] Check that a controlled type can be declared within a subprogram.
[VCS Label A3_1F] Eliminated overlong lines.
[VCS Label A3_1L] Corrected one of the potential results for

Subtest2(4) to be "Iafcf", not "IafcF".

- B831004 [New] VCS Label: A3_1G
Check that overriding indicators are properly enforced for types derived from a generic formal type. (Nested generic specification cases.)
- B83F02C [Modified] VCS Label: A3_1M
Updated many optional error markers to match ACATS standards.
- B840002 [New] VCS Label: A3_1G
Check a package use clause cannot denote a limited view or a non-package.
- C920001 [New] VCS Label: A3_1B
Check activation (and non-activation) of tasks declared as (part of) return objects in extended return statements.
- B91003A [Allowed Modification] New VCS Label: A3_1P Org VCS Label: A3_1
Required after 2017-07-01
Added additional error locations to directly support common error reporting strategies.
- B91003B [Allowed Modification] New VCS Label: A3_1P Org VCS Label: A3_1
Required after 2017-07-01
Added additional error locations to directly support common error reporting strategies.
- B91003C [Allowed Modification] New VCS Label: A3_1P Org VCS Label: A3_1
Required after 2017-07-01
Added additional error locations to directly support common error reporting strategies.
- B91003D [Allowed Modification] New VCS Label: A3_1P Org VCS Label: A3_1
Required after 2017-07-01
Added additional error locations to directly support common error reporting strategies.
- B940003 [Allowed Modification] New VCS Label: A3_1P Org VCS Label: A3_1
Required after 2017-07-01
Added additional error locations to directly support common error reporting strategies.
- B940004 [Allowed Modification] New VCS Label: A3_1P Org VCS Label: A3_1
Required after 2017-07-01
Split into 8 files; added location indicators.
- B95007B [Modified] VCS Label: A3_1M
Fixed error markers @62,66,70 to match ACATS standards.
- BA12017 [New] VCS Label: A3_1F
[VCS Label A3_1D] Check that a limited with clause is not allowed on a descendant of the named package.
[VCS Label A3_1F] Eliminated overlong line.
- BA15003 [New] VCS Label: A3_1D
Check that a library unit pragma must apply to a library unit.
- CB30001 [New] VCS Label: A3_1C
Check that the optional message parameter is supported in a raise statement, and that the message can be retrieved with

Exception_Message.

BB42001 [New] VCS Label: A3_1L
Check that the arguments of a pragma Assert have to have the correct types.

CB42001 [New] VCS Label: A3_1L
Check the usual operation of pragma Assert, including the optional message.

BB42002 [New] VCS Label: A3_1L
Check that the arguments of a pragma Assert cannot be reordered even if named notation is used.

CB42002 [New] VCS Label: A3_1L
Check that if the assertion policy is Ignore, none of the expressions of a pragma Assert are evaluated and no exception is raised by the pragma.

BB42003 [New] VCS Label: A3_1L
Check that a pragma Assertion_Policy is illegal if the policy is not recognized.

CB42003 [New] VCS Label: A3_1L
Check that procedure Ada.Assertions.Assert evaluates its arguments and raises Assertion_Error regardless of the assertion policy.

CC30003 [Modified] VCS Label: A3_1F
Eliminated overlong lines.

CC30004 [New] VCS Label: A3_1F
[VCS Label A3_1B] Check that if a generic actual type is elementary, it is passed by copy within an instance.
[VCS Label A3_1F] Eliminated overlong lines and tab characters.

CC3017C [Withdrawn] Org VCS Label: A3_1B
Replaced by test CC30004.

BC60001 [New] VCS Label: A3_1D
Test rules associated with formal subprogram defaults of null.

CC60001 [New] VCS Label: A3_1H
Check that calls on a formal abstract subprogram are dispatching.

BC60002 [New] VCS Label: A3_1H
Test rules associated with the controlling type of a formal abstract subprogram.

BC60004 [New] VCS Label: A3_1H
Check that a call on a formal abstract subprogram must be dispatching.

CD1009A [Withdrawn] VCS Label: A3_1Q
Has one of the objectives of, and thus redundant with, test CD2A31C (now CD30012).

CD1009B [Withdrawn] VCS Label: A3_1Q
Has one of the objectives of, and thus redundant with, test CD2A21C (now CD30011).

CD1009L [Withdrawn] VCS Label: A3_1Q

Virtually identical to, and thus redundant with, test CD2D13A.

CD1009M [Withdrawn] VCS Label: A3_1Q
Virtually identical to, and thus redundant with, test CD3014C.

CD2A21C [Withdrawn] VCS Label: A3_1Q
Replaced by CD30011.

CD2A31C [Withdrawn] VCS Label: A3_1Q
Replaced by CD30012.

CD30008 [New] VCS Label: A3_1K
Renaming of previous test CD33001 (there is no subclause 13.3.3).
The test is unchanged other than renaming the units involved
and fixing an overlong line.

CD30009 [New] VCS Label: A3_1K
Renaming of previous test CD33002 (there is no subclause 13.3.3).
The test is unchanged other than renaming the units involved
and fixing an overlong line.

CD30011 [Pending New] New VCS Label: A3_1Q
Required after 2017-10-01
Merges legacy tests CD1009B and CD2A21C to eliminate duplication
(CD1009B has the same objective as one of the objectives of
CD2A21C) while adding modern formatting and applicability
criteria.

CD30012 [Pending New] New VCS Label: A3_1Q
Required after 2017-10-01
Merges legacy tests CD1009A and CD2A31C to eliminate duplication
(CD1009A has the same objective as one of the objectives of
CD2A31C) while adding modern formatting and applicability
criteria.

CD33001 [Withdrawn] VCS Label: A3_1K
Renamed to CD30008, as there is no subclause 13.3.3.

CD33002 [Withdrawn] VCS Label: A3_1K
Renamed to CD30009, as there is no subclause 13.3.3.

BD4003A [Modified] VCS Label: A3_1M
Moved error marker from @66 to @67 so it is on the incorrect
construct.

BDD2004 [New] VCS Label: A3_1A
Check that subprograms specified for stream attributes meet the
requirements for such subprograms. This version corrects the
location of 'Class @230, 235, 240.

BDD2004 [Modified] VCS Label: A3_1F
[VCS Label A3_1C] Error @232 is legal by AI12-0121-1.
[VCS Label A3_1F] Eliminated overlong lines.

CXA4037 [New] VCS Label: A3_1G
Check Ada.Strings.Fixed.Find-Token against rule from 2001
Corrigendum.

CXA5016 [New] VCS Label: A3_1F
[VCS Label A3_1D] Check operation of attribute Machine_Rounding.
[VCS Label A3_1F] Eliminated overlong lines.

CXAA021 [New] VCS Label: A3_1D
Check file operations of Text_IO.Bounded_IO.

CXAA022 [New] VCS Label: A3_1D
Check file operations of Text_IO.Unbounded_IO.

CXAB002 [New] VCS Label: A3_1D
Check file operations of Wide_Text_IO.Wide_Bounded_IO.

CXAB003 [New] VCS Label: A3_1D
Check file operations of Wide_Wide_Text_IO.Wide_Wide_Bounded_IO.

CXAB004 [New] VCS Label: A3_1D
Check file operations of Wide_Text_IO.Wide_Unbounded_IO.

CXAB005 [New] VCS Label: A3_1D
Check file operations of Wide_Wide_Text_IO.Wide_Wide_Unbounded_IO.

CXAC008 [New] VCS Label: A3_1J
[VCS Label A3_1D] Check that Stream_IO files opened with mode
Out_File are not truncated by Close or Reset.
[VCS Label A3_1E] Corrected required file size in subtest 8, and
various failure messages.
[VCS Label A3_1F] Eliminated overlong lines.
[VCS Label A3_1J] Corrected a failure message.

CXAG001 [New] VCS Label: A3_1F
Check that Ada.Directories can be used to create and delete
directories.

CXAH001 [New] VCS Label: A3_1F
[VCS Label A3_1E] Test that package Environment_Variables can be
used to read environment variables.
[VCS Label A3_1F] Added missing Applicability Criteria.

CXAH002 [New] VCS Label: A3_1F
[VCS Label A3_1E] Test that package Environment_Variables can be
used to modify environment variables.
[VCS Label A3_1F] Added missing Applicability Criteria.

CXAI001 [New] VCS Label: A3_1A
Check the functionality defined in package Ada.Containers.Vectors.

CXAI002 [New] VCS Label: A3_1A
Check the functionality defined in package
Ada.Containers.Doubly_Linked_Lists.

CXAI003 [New] VCS Label: A3_1A
Check the functionality defined in package
Ada.Containers.Hashed_Maps.

CXAI004 [New] VCS Label: A3_1A
Check the functionality defined in package
Ada.Containers.Ordered_Maps.

CXAI005 [New] VCS Label: A3_1A
Check the functionality defined in package
Ada.Containers.Hashed_Sets.

CXAI006 [New] VCS Label: A3_1A

Check the functionality defined in package
Ada.Containers.Ordered_Sets.

FXAIA00 [New] VCS Label: A3_1A
Foundation containing types and values to be used to check the
functionality of the indefinite containers.

CXAIA01 [New] VCS Label: A3_1A
Check the functionality defined in package
Ada.Containers.Indefinite_Vectors.

CXAIA02 [New] VCS Label: A3_1A
Check the functionality defined in package
Ada.Containers.Indefinite_Doubly_Linked_Lists.

CXAIA03 [New] VCS Label: A3_1A
Check the functionality defined in package
Ada.Containers.Indefinite_Hashed_Maps.

CXAIA04 [New] VCS Label: A3_1A
Check the functionality defined in package
Ada.Containers.Indefinite_Ordered_Maps.

CXAIA05 [New] VCS Label: A3_1A
Check the functionality defined in package
Ada.Containers.Indefinite_Hashed_Sets.

CXAIA06 [New] VCS Label: A3_1A
Check the functionality defined in package
Ada.Containers.Indefinite_Ordered_Sets.

CXB3017 [New] VCS Label: A3_1B
Check that pragma Export can be used on subprograms and objects.

CXB3023 [New] VCS Label: A3_1M
[VCS Label A3_1K] Check that a value of an unchecked union type
(defined with pragma Unchecked_Union) can be passed to a C
function.
[VCS Label A3_1M] Added missing N/A => ERROR markers.

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Annex C
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[None.]

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Annex D
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CXD2007 [Allowed Modification] New VCS Label: A3_1P Org VCS Label: A3_1
Required after 2017-07-01
Added missing N/A => Error tag.

LXD7001 [Allowed Modification] New VCS Label: A3_1P Org VCS Label: A3_1
Required after 2017-07-01
Added missing error tag.

LXD7003 [Allowed Modification] New VCS Label: A3_1P Org VCS Label: A3_1
Required after 2017-07-01
Added missing error tag.

LXD7004 [Allowed Modification] New VCS Label: A3_1P Org VCS Label: A3_1
Required after 2017-07-01
Added missing error tag.

LXD7005 [Allowed Modification] New VCS Label: A3_1P Org VCS Label: A3_1
Required after 2017-07-01
Added missing error tag.

LXD7006 [Allowed Modification] New VCS Label: A3_1P Org VCS Label: A3_1
Required after 2017-07-01
Added missing error tag.

LXD7007 [Allowed Modification] New VCS Label: A3_1P Org VCS Label: A3_1
Required after 2017-07-01
Added missing error tag.

LXD7008 [Allowed Modification] New VCS Label: A3_1P Org VCS Label: A3_1
Required after 2017-07-01
Added missing error tag.

LXD7009 [Allowed Modification] New VCS Label: A3_1P Org VCS Label: A3_1
Required after 2017-07-01
Added location indicators.

CXDB001 [Allowed Modification] New VCS Label: A3_1P Org VCS Label: A3_1
Required after 2017-07-01
Added missing N/A => Error tag.

CXDB002 [Allowed Modification] New VCS Label: A3_1P Org VCS Label: A3_1
Required after 2017-07-01
Added missing N/A => Error tag.

CXDB003 [Allowed Modification] New VCS Label: A3_1P Org VCS Label: A3_1
Required after 2017-07-01
Added missing N/A => Error tag.

CXDB004 [Allowed Modification] New VCS Label: A3_1P Org VCS Label: A3_1
Required after 2017-07-01
Added missing N/A => Error tag.

===== Annex E =====

[None.]

===== Annex F =====

[None.]

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

CXG2001 [Modified] VCS Label: A3_1B
Formula for Model_Mantissa was replaced in Ada 2005 (and really in
the Corrigendum), but was never updated in this test. This only
affects machines with decimal floating point.

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

LXH4001 [Allowed Modification] New VCS Label: A3_1P Org VCS Label: A3_1
Required after 2017-07-01
Corrected format of error tag; added location indicators.

LXH4003 [Allowed Modification] New VCS Label: A3_1P Org VCS Label: A3_1
Required after 2017-07-01
Corrected format of error tag; added location indicators.

LXH4006 [Allowed Modification] New VCS Label: A3_1P Org VCS Label: A3_1
Required after 2017-07-01
Added missing error tags.

LXH4009 [Allowed Modification] New VCS Label: A3_1P Org VCS Label: A3_1
Required after 2017-07-01
Added missing error tags.

LXH4013 [Allowed Modification] New VCS Label: A3_1P Org VCS Label: A3_1
Required after 2017-07-01
Added missing error tags.

LXH4014 [Allowed Modification] New VCS Label: A3_1P Org VCS Label: A3_1
Required after 2017-07-01
Added missing error tags.

===== Support =====

IMPDEF [Modified] VCS Label: A3_1K
[VCS Label A3_1B] Added constants for the external names for the imported and exported routines in test CXB3017. The change is only needed for that test, it has no effect on any other test.
[VCS Label A3_1E] Added constants for the names of environment variables used by tests CXAH001 and CXAH002. 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 A3_1F] Added a constant and function used by test CXAG001. The change is only needed for that test, it has no effect on any other tests.
[VCS Label A3_1K] Added constants for the external name for the imported routine in test CXB3023. The change is only needed for that test, it has no effect on any other test.

How to get new and modified tests:

The official home of the ACATS test suite is the ACAA web site. It also can be accessed at www.ada-auth.org.

The complete set of official new and modified tests are available in the Mod_3_1Q.Zip and Tar files on the ACAA web site. As always, when a multi-file test is modified, we provide all of the files, including the unmodified files.

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 3.1 is available in various formats on the ACAA web site.

Summary lists:

Withdrawn Tests

(Refer to the main list for details)

B38105A
B43102A
B74001A
B74001B
B74203E
C62003A
CC3017C
CD1009A
CD1009B
CD1009L
CD1009M
CD2A21C
CD2A31C
CD33001
CD33002

Allowed Modification Tests

(Refer to the main list for details)

B63005A	2017-07-01
B65005B	2017-07-01
B730006	2017-07-01
B73001A	2017-07-01
B73001B	2017-07-01
B73001C	2017-07-01
B73001D	2017-07-01
B73001E	2017-07-01
B73001F	2017-07-01
B73001G	2017-07-01
B73001H	2017-07-01
B91003A	2017-07-01
B91003B	2017-07-01
B91003C	2017-07-01
B91003D	2017-07-01
B940003	2017-07-01
B940004	2017-07-01
C352001	2017-07-01
C480001	2017-07-01
CXD2007	2017-07-01
CXDB001	2017-07-01
CXDB002	2017-07-01
CXDB003	2017-07-01
CXDB004	2017-07-01
LXD7001	2017-07-01
LXD7003	2017-07-01
LXD7004	2017-07-01
LXD7005	2017-07-01

LXD7006	2017-07-01
LXD7007	2017-07-01
LXD7008	2017-07-01
LXD7009	2017-07-01
LXH4001	2017-07-01
LXH4003	2017-07-01
LXH4006	2017-07-01
LXH4009	2017-07-01
LXH4013	2017-07-01
LXH4014	2017-07-01

Modified Tests

(Refer to the main list for details)

B38003D
B393005
B3A1001 [VCS A3_1M]
B3A1002 [VCS A3_1M]
B455002
B62001C
B62001D
B740003
B750A01
B750A02
B83F02C
B95007B
BD4003A
BDD2004
C52101A
C540002
CC30003
CXG2001
IMPDEF [VCS A3_1K]

New Tests

(Refer to the main list for details)

B393011
B3A1007
B3A1008
B3A1009
B3A1A05
B3A2017
B431006
B480002
B480003
B540002
B640001
B730008
B730009
B730010

B750A04
B750A06
B831004
B840002
BA12017
BA15003
BB42001
BB42002
BB42003
BC60001
BC60002
BC60004
BDD2004
C390012
C391003
C3A0030
C3A1003
C3A1004
C3A2004
C480001
C540001
C620001
C640002
C660001
C760015
C920001
CB30001
CB42001
CB42002
CB42003
CC30004 [VCS Label A3_1F]
CC60001
CD30008
CD30009
CXA4037
CXA5016
CXAA021
CXAA022
CXAB002
CXAB003
CXAB004
CXAB005
CXAC008
CXAG001
CXAH001
CXAH002
CXAI001
CXAI002
CXAI003
CXAI004
CXAI005
CXAI006
CXAIA01
CXAIA02
CXAIA03
CXAIA04
CXAIA05
CXAIA06
CXB3017
CXB3023
FXAIA00

Pending New Tests

(Refer to the main list for details)

B354002	2017-10-01
B651001	2017-10-01
B730011	2017-10-01
B730012	2017-10-01
B730013	2017-10-01
C354004	2017-10-01
C453001	2017-10-01
C460014	2017-10-01
C460015	2017-10-01
C651001	2017-10-01
CD30011	2017-10-01
CD30012	2017-10-01