ACATS Test Modification List

Version 2.6H June 30, 2020

Changes from the last list:

A number of tests have changed status since the last list, see the main list for the current status.

New tests C620001 and C620002 modernize, add test cases to, and are (slightly) more realistic than legacy tests C62003A and C95072A, which they replace. The two old tests are withdrawn.

Many of the tests in ACATS 2.6 are incompatible with Ada 2005. ACATS 2.6 is intended for testing Ada 95 compatibility only; use ACATS 3.1 for testing Ada 2005 and ACATS 4.1 for testing Ada 2012.

No further new tests are expected for version 2 of the ACATS test suite (future development will be done on the Ada 2012 version, which is version 4.1 of the ACATS test suite). However, if a new test developed for Ada 2012 is appropriate for Ada 95, it may be added to this version of the test suite. New tests posted between April 1, 2020 and June 30, 2020 will become required for conformity assessments on January 1, 2021. New tests added to the ACATS before July 1, 2019 are now required for conformity assessments. The effective dates of tests are marked in the lists.

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

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 Categories are "Withdrawn" (the test should not be processed for Ada conformity assessments); "Allowed Modification" (either the original test or the modified one should be processed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 83 & Ada 95 standards are given in the format:

These references are to the Ada 95 standard unless "Ada83" is specified.

Main li	st:
	Core Language =====

- Name Category Version label (effective date; old version label) Short description.
- C433001 [Modified] VCS Label:A2_6D

 Messages @85, 107 should refer to Second_Component and messages
 @88, 110 should refer to Last Component.
- C453001 [New] VCS Label: A2_6F

 [VCS Label A2_6E] Check that modular adding operators wrap around rather than raising Constraint_Error.

 [VCS Label A2_6F] Remove with of Ada.Containers and all uses of it, as it is an Ada 2005 feature.
- C460013 [New] VCS Label: A2_6A

 Check that null excluding subtypes do not allow null values:
 access parameters. Includes a check for the not null syntax
 as required in Ada 95 by AI-447.
- C460014 [New] VCS Label: A2_6E

 Check that Constraint_Error is raised appropriately when converting access-to-classwide to another access type.
- C620001 [Pending New] New VCS Label: A2_6H
 Required after 2021-01-01
 Replaces test C62003A with modern format and additional test cases, also removes Ada 2012 incompatibility.
- C620002 [Pending New] New VCS Label: A2_6H
 Required after 2021-01-01
 Replaces test C95072A with modern format and additional test cases, also removes Ada 2012 incompatibility.
- C62003A [Withdrawn] VCS Label: A2_6E Replaced by C620001.
- B730013 [New] VCS Label: A2_6E

 Test operations available for a private type; replaces test
 B74203E.
- B74203E [Withdrawn] VCS Label: A2_6E Replaced by B730013.
- C761006 [Modified] VCS Label: A2_6D

 Rewrite test to not fail if the deallocated object is finalized twice. (This is allowed by AI95-0179-1.)
- C95072A [Withdrawn] VCS Label: A2_6E Replaced by C620002.
- BA11007 [Modified] VCS Label: A2_6G Split into six test files to avoid requiring error recovery.
- BA1101E [Withdrawn] VCS Label: A2_6G Replaced by BA14001.
- BA14001 [New] VCS Label: A2 $_$ 6G Replaces test BA1101E with modern format and additional test cases

for Ada 95 compilation units.

- CB41004 [Modified] VCS Label: A2_6B

 Test case @99-107 should allow Constraint_Error to be raised, as per the Binding Interpretation AI-446.
- CD1009A [Withdrawn] VCS Label: A2_6E

 Has one of the objectives of, and thus redundant with, test
 CD2A31C (now CD30012).
- CD1009B [Withdrawn] VCS Label: A2_6E

 Has one of the objectives of, and thus redundant with, test

 CD2A21C (now CD30011).
- CD1009L [Withdrawn] VCS Label: A2_6E Virtually identical to, and thus redundant with, test CD2D13A.
- CD1009M [Withdrawn] VCS Label: A2_6E Virtually identical to, and thus redundant with, test CD3014C.
- CD2A21C [Withdrawn] VCS Label: A2_6E Replaced by CD30011.
- CD2A31C [Withdrawn] VCS Label: A2_6E Replaced by CD30012.
- CD30011 [New] VCS Label: A2_6E

 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 [New] VCS Label: A2_6E

 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.
- CXAC005 [Modified] VCS Label: A2_6A

 The function @114-7 may raise Program_Error for some implementations of Stream IO.File Type.
- ==== Annex C =====
- BXC3002 [Modified] VCS Label:A2_6D Declaration @103 is not illegal as Amendment repealed the relevant rule.
- BXC6A03 [Modified] VCS Label: A2_6G Removed test case changed by AI05-0218-1.
- CXC7001 [Modified] VCS Label: A2_6B Checks at @165 and @177 are backwards.
- ==== Annex D =====

[None.]

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.

The complete set of official new and modified tests are available in the Mod_2_6H.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 2.6 is available in various formats on the ACAA web site.

Summary lists:

Withdrawn Tests

(Refer to the main list for details)

B74203E BA1101E C62003A C95072A CD1009A CD1009B CD1009L CD1009M CD2A21C CD2A31C

Allowed Modification Tests

(Refer to the main list for details)

None.

Modified Tests

(Refer to the main list for details)

BA11007 BXC3002 BXE2009

C433001 C761006

CB41004

CXAC005

CXC6A03

CXC7001

TCTOUCH

New Tests

(Refer to the main list for details)

B730013

BA14001

C453001

C460013

C460014

CD30011

CD30012

Pending New Tests

(Refer to the main list for details)

C620001 2021-01-01 C620002 2021-01-01