ACATS Test Modification List

Version 2.6G
March 16, 2018

Changes from the last list:

Various tests have changed status since the last list, see the main list for the current status.

Test BXC6A03 was modified to not require a result contrary to AI05-0218-1 (a Binding Interpretation, so it can apply to Ada 95 implementations).

Test BA11007 was split into six files to eliminate the need for cross-unit error correction and to provide better error handling.

New test BA14001 replaces legacy test BA1101E with a modern format test that also includes test cases for Ada 95 unit types.

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 January 1, 2018 and March 31, 2018 will become required for conformity assessments on October 1, 2018. New tests added to the ACATS before July 1, 2017 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 Categories are "Withdrawn" (the test should not be processed for Ada conformity assessments); "Allowed Modification" (either the original test or the modified one should be processed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:

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

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

Main list:

===== 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 [Pending New] New VCS Label: A2_6F
                Required after 2018-04-01
      [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.

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.)

BA11007 [Allowed Modification] New VCS Label: A2_6G Org VCS Label: A2_6
                Required after 2018-07-01
      Split into six test files to avoid requiring error recovery.

BA1101E [Withdrawn] VCS Label: A2_6G
      Replaced by BA14001.

BA14001 [Pending New] New VCS Label: A2_6G
                Required after 2018-10-01
      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 [Allowed Modification] New VCS Label: A2_6G Org VCS Label: A2_6
                Required after 2018-07-01
        Removed test case changed by AI05-0218-1.

CXC7001 [Modified] VCS Label: A2_6B
        Checks at @165 and @177 are backwards.

===== Annex D =====

[None.]

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

BXE2009 [Modified] VCS Label: A2_6A
        Package Ada.Finalization @140 is not a "normal" package.

```
===== Annex F =====
```

[None.]

```
===== Annex G =====
```

[None.]

```
===== Annex H =====
```

[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_6G.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
CD1009A
CD1009B
CD1009L
CD1009M
CD2A21C
CD2A31C
```

Allowed Modification Tests

(Refer to the main list for details)

```
BA11007      2018-07-01
CXC6A03      2018-07-01
```

Modified Tests

(Refer to the main list for details)

```
BXC3002
BXE2009
C433001
C761006
CB41004
CXAC005
CXC7001
```

New Tests

(Refer to the main list for details)

```
B730013
C460013
C460014
CD30011
CD30012
```

Pending New Tests

(Refer to the main list for details)

```
BA14001      2018-10-01
C453001      2018-04-01
```