ACATS Modification List for ACATS 4.1
Version 4.1D
March 31, 2017

What is this?

This is the ACATS modification list for ACATS 4.1. This document includes test corrections, test removals, and new tests for ACATS 4.1. ACATS 4.1 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 3.1Q 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 2.6E 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:

The grading tool was corrected to properly count Annex C RQMT failures in their own category (they had accidentally been counted as “NA (Compile”)”). The table sizes in GRD_DATA.A (part of the grading tool) were increased as the new tests added recently have caused them to be exceeded when the entire ACATS is graded at once.

New test C350001 checks that the object form of attribute Image is implemented.

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 tests B35A001 and C35A001 checks that Small can be specified by an aspect specification and that the associated Legality Rules are checked.

New test C452002 checks that overloading resolution works as expected for Ada 2012 membership operations.

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

New test C470001 checks that a qualified expression is a name and can be used in places that require a name. New test B470001 checks that a qualified expression is a constant view, regardless of what the expression is.

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.

Tests C611A04 and C611B03 (new last time) had a number of overlong lines corrected.

New tests B651001, B651002, B651003, C651001, and C651002 check rules involving nonreturning procedures.
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.

New test BA21005 checks that Pure and Preelaborate aspects are not specified late, with a nonstatic value, or with a non-Boolean type.

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 test CD30010 checks that aspect specifications can be used to specify Component_Size. New tests BD30001, BD30002, and BD30003 check that legality rules are enforced for the type forms of aspect Size, Alignment, and Component_Size.

New test CXAC009 checks that Stream_IO.File_Type has Preelaborable_Initialization.

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 posted before July 1, 2016 are 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.

**ACATS 4.1 includes optional Test Grading tools**

ACATS 4.1 introduces new test grading tools.

When the ACATS was designed (as the ACVC in the early 1980s), the intention always was that running it would give a simple and clear Pass or Fail result. However, grading of tests (particularly of B and L Tests) is somewhat subjective and very time-consuming. (Test grading typically involved poring over compiler listings of the entire ACATS with a large highlighter.) The subjectivity was acceptable in the days of common formal testing, as the formal testers would enforce a common grading standard (even if no one could describe what that was), but in an age of self-testing, it reduces the value of the ACATS.

As such, we’re introducing a long-overdue set of automated grading tools. These tools are intended to:
- Greatly reduce the effort to grade an ACATS test run (and, hopefully to reduce the cost of formal testing to make it a more practical option);
- Ensure that all users of the ACATS grade tests in the same way, thus making it more valid to compare ACATS results between different implementations and different testers;
- Give implementers certainty as to whether a particular test result is passing (whether the location of an error is “close enough” to the canonical position);
- Be able to detect process errors (especially errors of omission) – that is, tests improperly run (for instance, files compiled in the wrong order where the ACATS requires an order), or not run at all (if one is checking off lines in a listing, it’s hard to notice that some test or portion of a test is missing).
The tools also will optionally give feedback to implementers about quality of error message positioning and of error cascades (does one error generate multiple messages?). (Since “goodness of an implementation” is not something that the ACATS tests for, this is not an official goal for the tools.)

This is an ambitious set of goals. It's unlikely that they'll be completely met by the initial versions of the tools. As such, their use will be completely optional (but encouraged!) for ACATS 4.1. The tools will be updated periodically by the normal process for updating the ACATS – an ACATS Modification List like this one.

Details on the operation of the tools can be found in the ACATS 4.1 documentation (that documentation can be found at http://www.ada-auth.org/acats-files/4.1/docs/UG-6.HTM). As always, if you have questions, contact the ACAA Technical Agent at agent@ada-auth.org.

**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#,#,...>'; 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 ======

<table>
<thead>
<tr>
<th>Name</th>
<th>Category</th>
<th>Version label</th>
<th>(effective date; old version label)</th>
<th>Short description</th>
</tr>
</thead>
<tbody>
<tr>
<td>C350001</td>
<td>[Pending New]</td>
<td>New VCS Label: A4_1D</td>
<td>Required after 2017-10-01</td>
<td></td>
</tr>
</tbody>
</table>
Check that the object form of the Image attribute is implemented.

C352001 [Allowed Modification] New VCS Label: A4_1D Org VCS Label: A4_1
Corrected Failed message @267 to reflect intended result.

B354002 [Pending New] New VCS Label: A4_1D
Required after 2017-10-01
Test basic requirements for the Mod attribute.

C354004 [Pending New] New VCS Label: A4_1D
Required after 2017-10-01
Test basic operation of the Mod attribute.

B35A001 [Pending New] New VCS Label: A4_1D
Required after 2017-10-01
Check Legality Rules are enforced when Small is specified by an aspect specification.

C35A001 [Pending New] New VCS Label: A4_1D
Required after 2017-10-01
Check that Small can be specified by an aspect specification.

B38003D [Modified] VCS Label: A4_1A
Corrected error tags @70,76,82,88 so “optional” and “error” are on the same line, as required by the test standards.

C3A0030 [New] VCS Label: A4_1A
Check that an access discriminant is only null excluding if it includes a null exclusion.

B3A1001 [Modified] VCS Label: A4_1A
Split Pack6 so possible error sets don't intersect; fixed overlong lines.

B3A1002 [Modified] VCS Label: A4_1A
Split Pack6 so possible error sets don't intersect; fixed overlong lines.

C452002 [Pending New] New VCS Label: A4_1D
Required after 2017-10-01
Check that overloading resolution of Ada 2012 membership operations works as intended.

C453001 [Pending New] New VCS Label: A4_1D
Required after 2017-10-01
Check that modular adding operators wrap around rather than raising Constraint_Error.

B455002 [Modified] VCS Label: A4_1A
Corrected casing of error tags and fixed overlong lines.

C460014 [Pending New] New VCS Label: A4_1C
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: A4_1C
Required after 2017-10-01
Check that Constraint_Error is raised appropriately when converting access-to-limited-classwide to another access type.
Check that qualified expressions are a constant view of the expression, even if the expression is a variable object.

Check that qualified expressions are a name, and thus can be used as a prefix and other places a name is required.

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

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.

Corrected several error location codes.

Corrected comment @49 not to have the form of an error tag.

Check that Pre and Post are only allowed on subprograms and entries (and not on subprogram instances).

Check that Pre and Post are not allowed on subprograms acting as completions.

Corrected several error location codes.

Check that Pre'Class and Post'Class are only allowed on primitive subprograms of tagged types. (Normal tagged types and interfaces.)

Check that Pre'Class and Post'Class are not allowed on subprograms acting as completions.

Check that Pre and Post are not allowed on abstract subprograms and null procedures.

Check that the restrictions on Pre'Class and Post'Class expressions added by AI12-0113-1 are enforced.

Clarified error @208; changed error @233 & @247 to OK (as the inherited Proc4 routine is abstract and thus is not subject to the new rule).

Check that Pre'Class and Post'Class are not allowed on entries and protected subprograms of untagged task and protected types.
Check various rules about the use of the Result attribute.

Check that F\'Result is not allowed in the body of F.

Check that the Old attribute is not allowed in a subprogram or entry body, or in an accept statement.

Check that the Old attribute cannot be used within a precondition expression nor in a generic specification outside of a postcondition expression.

Check that the prefix of an Old attribute cannot contain the Result attribute, another Old attribute, nor the index of a quantified expression.

For a discrete X, check that X\'Old has the nominal subtype of X.

If an Old attribute reference occurs in a place where it is potentially unevaluated, check that the prefix must statically denote an object.

Corrected error location codes @240 and @252.

Check that the prefix of an Old attribute cannot have a limited type.

Check that tagged task and tagged protected types do not allow Pre\'Class and Post\'Class, nor are they allow on operations of those types.

Check that Pre\'Class cannot be specified for an overriding of a subprogram that does not specify Pre\'Class.

Declaration of New_Proc @358 is not overriding and thus not subject to the rule. The declaration of Shine @149 never overrides primitives of the actual type by 12.3(18), thus this rule does not apply to instances of Gen2. Added an example using a generic derived type.

Type T08 @230 and @241 needs to be declared abstract.

Check 6.1.1(17/3).
The declaration of Get_Count never overrides primitives of the actual type by 12.3(18), thus this rule does not apply to instances of Gen2. Added examples using generic derived types.

C611A01 [New] VCS Label: A4_1A
Check that preconditions and postconditions where both specific and class-wide contracts apply are checked properly.

C611A02 [New] VCS Label: A4_1A
Check that the correct expressions are evaluated for specific preconditions and postconditions, and that they are evaluated at the correct point.

C611A02 [Allowed Modification] New VCS Label: A4_1C Org VCS Label: A4_1A
Required after 2017-07-01
The main subprogram name was corrected to follow the rules of the ACATS User's Guide, clause 4.3.3.

C611A03 [New] VCS Label: A4_1A
Check that the correct expressions are evaluated for class-wide preconditions and postconditions, and that they are evaluated at the correct point.

C611A03 [Allowed Modification] New VCS Label: A4_1C Org VCS Label: A4_1A
Required after 2017-07-01
The main subprogram name was corrected to follow the rules of the ACATS User's Guide, clause 4.3.3.

C611A04 [Pending New] New VCS Label: A4_1D
Required after 2017-10-01
[VCS Label A4_1C] Check that the correct expressions are evaluated for class-wide preconditions and postconditions of an interface type, and that they are evaluated at the correct point.
[VCS Label A4_1D] Fixed too long lines.

C611B01 [New] VCS Label: A4_1A
Check that X'Old has the tag of X and not the tag of the nominal subtype of X (for Post).

C611B01 [Allowed Modification] New VCS Label: A4_1C Org VCS Label: A4_1A
Required after 2017-07-01
The main subprogram name was corrected to follow the rules of the ACATS User's Guide, clause 4.3.3.

C611B02 [New] VCS Label: A4_1A
Check that X'Old has the tag of X and not the tag of the nominal subtype of X (for Post'Class).

C611B02 [Allowed Modification] New VCS Label: A4_1C Org VCS Label: A4_1A
Required after 2017-07-01
The main subprogram name was corrected to follow the rules of the ACATS User's Guide, clause 4.3.3.

C611B03 [Pending New] New VCS Label: A4_1D
Required after 2017-10-01
[VCS Label A4_1C] Check that X'Old has the tag of X and not the tag of the nominal subtype of X (for Post'Class of an interface type).
[VCS Label A4_1D] Fixed too long lines.
B62001C [Modified] VCS Label: A4_1A
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: A4_1A
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).

Required after 2017-07-01
Added additional error locations to directly support common error reporting strategies.

B65005B [Allowed Modification] New VCS Label: A4_1P Org VCS Label: A4_1
Required after 2017-07-01
Added additional error locations to directly support common error reporting strategies.

C650B04 [New] VCS Label: A4_1A
Check that the result of a function that returns a class-wide tagged type does an accessibility check on the tag of the result object when the result expression is class-wide.

B651001 [Pending New] New VCS Label: A4_1D
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: A4_1D
Required after 2017-10-01
Check that a nonreturning procedure can raise an exception and raises Program_Error otherwise (pragma No_Return version).

B651002 [Pending New] New VCS Label: A4_1D
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 (aspect No_Return version).

C651002 [Pending New] New VCS Label: A4_1D
Required after 2017-10-01
Check that a nonreturning procedure can raise an exception and raises Program_Error otherwise (aspect No_Return version).

B651003 [Pending New] New VCS Label: A4_1D
Required after 2017-10-01
Check that an aspect No_Return can only be given on a procedure or generic procedure, that the expression has to be nonstatic, and that the aspect is not given on an instance or null procedure.

B730006 [Allowed Modification] New VCS Label: A4_1C Org VCS Label: A4_1
Required after 2017-07-01
Corrected format of error tags; added location indicators.

B730011 [Pending New] New VCS Label: A4_1C
Required after 2017-10-01
Test various rules about completions of private types and extensions; replaces test B74001A.
B730012 [Pending New] New VCS Label: A4_1C
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: A4_1D
Required after 2017-10-01
Test operations available for a private type; replaces test B74203E.

Required after 2017-07-01
Added additional error locations to directly support common error reporting strategies.

B73001B [Allowed Modification] New VCS Label: A4_1C Org VCS Label: A4_1
Required after 2017-07-01
Added additional error locations to directly support common error reporting strategies.

B73001C [Allowed Modification] New VCS Label: A4_1C Org VCS Label: A4_1
Required after 2017-07-01
Added additional error locations to directly support common error reporting strategies.

B73001D [Allowed Modification] New VCS Label: A4_1C Org VCS Label: A4_1
Required after 2017-07-01
Added additional error locations to directly support common error reporting strategies.

B73001E [Allowed Modification] New VCS Label: A4_1C Org VCS Label: A4_1
Required after 2017-07-01
Added additional error locations to directly support common error reporting strategies.

B73001F [Allowed Modification] New VCS Label: A4_1C Org VCS Label: A4_1
Required after 2017-07-01
Added additional error locations to directly support common error reporting strategies.

B73001G [Allowed Modification] New VCS Label: A4_1C Org VCS Label: A4_1
Required after 2017-07-01
Added additional error locations to directly support common error reporting strategies.

B73001H [Allowed Modification] New VCS Label: A4_1C Org VCS Label: A4_1
Required after 2017-07-01
Added additional error locations to directly support common error reporting strategies.

B740003 [Modified] VCS Label: A4_1A
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: A4_1C
Replaced by B730011.

B74001B [Withdrawn] VCS Label: A4_1C
Replaced by B730012.
Check that only legal expressions are allowed in the return expression of an expression function that returns a limited type.

Updated many optional error markers to match ACATS standards.

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

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

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

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

Split into 8 files; added location indicators.

Fixed error markers @62,66,70 to match ACATS standards.

Test that Pure and Preelaborate aspects cannot be specified late, with a nonstatic expression, or an expression of a type other than Boolean.

Check that the arguments of a pragma Assert have to have the correct types.

Corrected two incorrect error location codes.

Check the usual operation of pragma Assert, including the optional message.
BB42002 [New] VCS Label: A4_1A
Check that the arguments of a pragma Assert cannot be reordered even if named notation is used.

CB42002 [New] VCS Label: A4_1A
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: A4_1A
Check that a pragma Assertion_Policy is illegal if the policy is not recognized.

CB42003 [New] VCS Label: A4_1A
Check that procedure Ada.Assertions.Assert evaluates its arguments and raises Assertion_Error regardless of the assertion policy.

CD1009A [Withdrawn] VCS Label: A4_1D
Has one of the objectives of, and thus redundant with, test CD2A31C (now CD30012).

CD1009B [Withdrawn] VCS Label: A4_1D
Has one of the objectives of, and thus redundant with, test CD2A21C (now CD30011).

CD1009L [Withdrawn] VCS Label: A4_1D
Virtually identical to, and thus redundant with, test CD2D13A.

CD1009M [Withdrawn] VCS Label: A4_1D
Virtually identical to, and thus redundant with, test CD3014C.

CD11001 [New] VCS Label: A4_1A
Check that appropriate entities are visible in an aspect specification.

CD2A21C [Withdrawn] VCS Label: A4_1D
Replaced by CD30011.

CD2A31C [Withdrawn] VCS Label: A4_1D
Replaced by CD30012.

BD30001 [Pending New] VCS Label: A4_1D
Required after 2017-10-01
Check Legality Rules are enforced when Size is specified by an aspect specification for a type.

BD30002 [Pending New] VCS Label: A4_1D
Required after 2017-10-01
Check Legality Rules are enforced when Alignment is specified by an aspect specification for a type.

BD30003 [Pending New] VCS Label: A4_1D
Required after 2017-10-01
Check Legality Rules are enforced when Component_Size is specified by an aspect specification.

CD30010 [Pending New] VCS Label: A4_1D
Required after 2017-10-01
Check that Component_Size can be specified via an aspect specification.
CD30011 [Pending New] New VCS Label: A4_1D
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: A4_1D
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.

BD4003A [Modified] VCS Label: A4_1A
Moved error marker from @66 to @67 so it is on the incorrect construct.

CXAC009 [Pending New] New VCS Label: A4_1D
Required after 2017-10-01
Check that Stream_IO.File_Type has Preelaborable_Initialization.

CXB3023 [New] VCS Label: A4_1A
Check that a value of an unchecked union type (defined with pragma Unchecked_Union) can be passed to a C function.

CXB3024 [New] VCS Label: A4_1A
Check that a value of an unchecked union type (defined with aspect Unchecked_Union) can be passed to a C function.

===== Annex C =====
[None.]

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

CXD2007 [Allowed Modification] New VCS Label: A4_1C Org VCS Label: A4_1
Required after 2017-07-01
Added missing N/A => Error tag.

LXD7001 [Allowed Modification] New VCS Label: A4_1C Org VCS Label: A4_1
Required after 2017-07-01
Added missing error tag.

LXD7002 [Allowed Modification] New VCS Label: A4_1C Org VCS Label: A4_1
Required after 2017-07-01
Added missing error tag.

LXD7003 [Allowed Modification] New VCS Label: A4_1C Org VCS Label: A4_1
Required after 2017-07-01
Added missing error tag.

LXD7004 [Allowed Modification] New VCS Label: A4_1C Org VCS Label: A4_1
Required after 2017-07-01
Added missing error tag.

LXD7005 [Allowed Modification] New VCS Label: A4_1C Org VCS Label: A4_1
Required after 2017-07-01
Added missing error tag.

LXD7006 [Allowed Modification] New VCS Label: A4_1C Org VCS Label: A4_1
Required after 2017-07-01
Added missing error tag.
LXD7007 [Allowed Modification] New VCS Label: A4_1C Org VCS Label: A4_1
Required after 2017-07-01
Added missing error tag.

LXD7008 [Allowed Modification] New VCS Label: A4_1C Org VCS Label: A4_1
Required after 2017-07-01
Added missing error tag.

LXD7009 [Allowed Modification] New VCS Label: A4_1C Org VCS Label: A4_1
Required after 2017-07-01
Added location indicators.

CXDB001 [Allowed Modification] New VCS Label: A4_1C Org VCS Label: A4_1
Required after 2017-07-01
Added missing N/A => Error tag.

CXDB002 [Allowed Modification] New VCS Label: A4_1C Org VCS Label: A4_1
Required after 2017-07-01
Added missing N/A => Error tag.

CXDB003 [Allowed Modification] New VCS Label: A4_1C Org VCS Label: A4_1
Required after 2017-07-01
Added missing N/A => Error tag.

CXDB004 [Allowed Modification] New VCS Label: A4_1C Org VCS Label: A4_1
Required after 2017-07-01
Added missing N/A => Error tag.

===== Annex E =====
[None.]

===== Annex F =====
[None.]

===== Annex G =====
[None.]

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

LXH4001 [Allowed Modification] New VCS Label: A4_1C Org VCS Label: A4_1
Required after 2017-07-01
Corrected format of error tag; added location indicators.

LXH4003 [Allowed Modification] New VCS Label: A4_1C Org VCS Label: A4_1
Required after 2017-07-01
Corrected format of error tag; added location indicators.

LXH4006 [Allowed Modification] New VCS Label: A4_1C Org VCS Label: A4_1
Required after 2017-07-01
Added missing error tags.

LXH4009 [Allowed Modification] New VCS Label: A4_1C Org VCS Label: A4_1
Required after 2017-07-01
Added missing error tags.

LXH4013 [Allowed Modification] New VCS Label: A4_1C Org VCS Label: A4_1
Required after 2017-07-01
Added missing error tags.
LXH4014 [Allowed Modification] New VCS Label: A4_1C Org VCS Label: A4_1
Required after 2017-07-01
Added missing error tags.

===== Support =====

F611A00 [New] VCS Label: A4_1A
Foundation for tests C611A01, C611A02, and C611A03.

F611A00 [Allowed Modification] New VCS Label: A4_1C Org VCS Label: A4_1A
Required after 2017-07-01
Added additional data for test C611A04. The changes are only needed for that test.

F611B00 [New] VCS Label: A4_1A
Foundation for tests C611B01, C611B02, and C611B03.

Required after 2017-07-01
[VCS Label A4_1C] Allowed manual grading for tests that are missing execution or linking (with no earlier errors). Corrected the result for binder crashes. Added category totals to the summary.
[VCS Label A4_1D] Corrected so that Annex C RQMT failures are properly counted in their own category.

Increased table sizes as the new tests have caused grading the entire ACATS to exceed the old limits.

Added test BA21005 to the list of optional main subprograms.

Corrected identification of main subprograms in modern tests. Changed the unit name for subunits to be the full expanded name including the parent name.

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_4_1D.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 4.1 is available in various formats on the ACAA web site.

**Summary lists:**

### Withdrawn Tests

(Refer to the main list for details)

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### Allowed Modification Tests

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Modified Tests

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B62001D
B740003
B83F02C
B95007B
BD4003A
C52101A

New Tests

(Refer to the main list for details)

B611001
B611002
B611003
B611004
B611005
B611006
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B611008
B611009
B611010
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### Pending New Tests

(Refer to the main list for details)

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