

ACATS Modification List for ACATS 4.1

Version 4.1R

June 30, 2020

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 3.1AA 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 2.6H 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:

A handful of tests changed status on April 1st; see the lists for the details.

New tests C350A01, C350A02, C350B01, C350B02, and the associated foundations F350A00 and F350B00 check that objects of types that have a specified `Default_Value` are appropriately initialized.

Test C452003 has confused code in `Force_Save`, and the `Force_Op` routine made the wrong test.

New test C620002 modernizes, added test cases to, and removes an incompatibility from test C95072A. The old test is withdrawn.

Test B854002 was constructed by copying test BC60005, so not surprisingly, it has the same errors; these have been corrected.

The instance @437 in BC60005 has the wrong actual parameter, this was corrected.

New test BD10001 checks that the same aspect cannot be specified in multiple ways.

Note: Some Allowed Modification tests have a required date of "ACATS 4.2". These are tests that don't have substantive changes, but rather change comments (including error locations for B-Tests). For ACATS users that are using traditional results comparison rather than the ACATS grading tools, changing these tests may cause work without benefit (since the tests don't have significant changes). As such, we're allowing the use of the old versions of the tests until the time when the next ACATS version (ACATS 4.2) is issued (not likely before winter 2021; it will be announced at least 90 days in advance of issuance).

New tests posted between April 1, 2020 and June 30, 2020 will become required for conformity assessments on January 1, 2021. New tests posted between January 1, 2020 and March 31, 2020 will become required for conformity assessments on October 1, 2020. New tests posted between October 1, 2019 and December 31, 2019 will become required for conformity assessments on July 1, 2020. New tests posted before October 1, 2019 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#,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.ada-auth.org/standards/rm12_w_tc1/html/RM-TOC.html.

Main list:

==== Core Language =====

Name	Category	Version label	(effective date; old version label)	Short description.
B32201A	[Allowed Modification]	New VCS Label: A4_1P	Org VCS Label: A4_1	Required in ACATS 4.2 Added error location indicators.
B33001A	[Modified]	VCS Label: A4_1P		Added error location indicators, added additional possible error locations, restored likely intended test for Set2.
B33101A	[Allowed Modification]	New VCS Label: A4_1P	Org VCS Label: A4_1	Required in ACATS 4.2 Added error location indicators.
B350001	[Pending New]	VCS Label: A4_1Q		Required after 2020-10-01 Check that the requirements on the specification of the Default_Value aspect are enforced.
C350001	[New]	VCS Label: A4_1D		Check that the object form of the Image attribute is implemented.
C350A01	[Pending New]	VCS Label: A4_1R		Required after 2021-01-01 Check that objects of types with specified Default_Values are properly initialized. Part 1: Normal discrete types.
C350A02	[Pending New]	VCS Label: A4_1R		Required after 2021-01-01 Check that objects of types with specified Default_Values are properly initialized. Part 2: Generic discrete types.
C350B01	[Pending New]	VCS Label: A4_1R		Required after 2021-01-01 Check that objects of types with specified Default_Values are properly initialized. Part 3: Normal real types.
C350B02	[Pending New]	VCS Label: A4_1R		Required after 2021-01-01

Check that objects of types with specified Default_Values are properly initialized. Part 4: Generic real types.

- C352001 [Modified] VCS Label: A4_1D
Corrected Failed message @267 to reflect intended result.
- B354002 [New] VCS Label: A4_1D
Test basic requirements for the Mod attribute.
- C354004 [New] VCS Label: A4_1D
Test basic operation of the Mod attribute.
- B35A001 [New] VCS Label: A4_1D
Check Legality Rules are enforced when Small is specified by an aspect specification.
- C35A001 [New] VCS Label: A4_1D
Check that Small can be specified by an aspect specification.
- B360001 [Pending New] VCS Label: A4_1Q
Required after 2020-10-01
Check that the requirements on the specification of the Default_Value aspect are enforced.
- B37309B [Modified] VCS Label: A4_1G
Added additional error locations to directly support common error reporting strategies.
- B37310B [Modified] VCS Label: A4_1G
Added additional error locations to directly support common error reporting strategies.
- B37311A [Modified] VCS Label: A4_1G
Added additional error locations to directly support common error reporting strategies.
- 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.
- B38103A [Allowed Modification] New VCS Label: A4_1P Org VCS Label: A4_1
Required in ACATS 4.2
Added error location indicators.
- B38103B [Allowed Modification] New VCS Label: A4_1P Org VCS Label: A4_1
Required in ACATS 4.2
Added error location indicators.
- B38103C [Allowed Modification] New VCS Label: A4_1P Org VCS Label: A4_1
Required in ACATS 4.2
Added error location indicators.
- B38103D [Allowed Modification] New VCS Label: A4_1P Org VCS Label: A4_1
Required in ACATS 4.2
Added error location indicators.
- B38103E [Allowed Modification] New VCS Label: A4_1P Org VCS Label: A4_1

Required in ACATS 4.2
Added error location indicators.

- B392002 [Modified] VCS Label: A4_1G
Revised to use Possible Error tags, and added error location indicators.
- B392003 [Modified] VCS Label: A4_1G
Added additional error locations to directly support common error reporting strategies.
- B392004 [Modified] VCS Label: A4_1G
Added additional error locations to directly support common error reporting strategies.
- B392005 [Modified] VCS Label: A4_1G
Revised to use Possible Error tags, and added error location indicators.
- B393001 [Modified] VCS Label: A4_1G
Added additional error locations to directly support common error reporting strategies.
- B393007 [Modified] VCS Label: A4_1G
Added additional error locations to directly support common error reporting strategies. Fixed overlong lines.
- B393010 [Modified] VCS Label: A4_1G
Added additional error locations to directly support common error reporting strategies. Fixed overlong lines.
- B393012 [Pending New] New VCS Label: A4_1P
Required after 2020-07-01
Check that abstract types cannot be used in additional contexts that do not allow abstract types.
- B393013 [Pending New] New VCS Label: A4_1P
Required after 2020-07-01
Check that interface types cannot be used in additional contexts that do not allow abstract types.
- 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.
- B3A2007 [Modified] VCS Label: A4_1G
Added additional error locations to directly support common error reporting strategies.

B3A2008 [Modified] VCS Label: A4_1G
Added additional error locations to directly support common error reporting strategies.

B3A2009 [Modified] VCS Label: A4_1G
Removed tabs to meet test format standards; added error location indicators.

B3A2011 [Modified] VCS Label: A4_1G
Added additional error locations to directly support common error reporting strategies.

B3A2012 [Modified] VCS Label: A4_1G
Added additional error locations to directly support common error reporting strategies.

B3A2016 [Modified] VCS Label: A4_1G
Added additional error locations to directly support common error reporting strategies.

B3A2018 [New] VCS Label: A4_1H
Check that an explicitly aliased parameter has the same accessibility level as a normal parameter unless compared to the return object. Check that master of the function call is properly determined statically.

B413004 [Modified] VCS Label: A4_1J
PPA and PFA trigger the issue of AI12-0289-1; explicit null exclusions were added to the parameters to avoid it.

C415001 [Modified] VCS Label: A4_1P
[VCS Label A4_1N] Return @119 fails an accessibility check unless C is aliased.
[VCS Label A4_1P] The subtype of My_Colln @125 needs to be either discriminated or to statically match that of the formal types of the parameters.

B431007 [Pending New] New VCS Label: A4_1P
Required after 2020-07-01
Check that record aggregates are not allowed for types whose components aren't visible.

B432002 [Pending New] New VCS Label: A4_1P
Required after 2020-07-01
Check that all of the extensions of an extension aggregate are record extensions.

B432003 [Pending New] New VCS Label: A4_1P
Required after 2020-07-01
Check that the ancestor subtype_mark of an extension aggregate does not denote a view with unknown discriminants.

B452001 [New] VCS Label: A4_1K
Check that a membership that contains choice expressions is illegal for a limited type that does not have equality.

B452002 [New] VCS Label: A4_1L

Check that Resolution and Legality Rules for the universal access equality operator are enforced.

- C452002 [New] VCS Label: A4_1F
[VCS Label A4_1D] Check that overloading resolution of Ada 2012 membership operations works as intended.
[VCS Label A4_1F] Fixed incorrect test number passed to Report.
- C452003 [New] VCS Label: A4_1K
Check that memberships of general access-to-object types work as defined.
- C452003 [Allowed Modification] New VCS Label: A4_1R Org VCS Label: A4_1K
Required after 2020-10-01
Corrected Force_Save and Force_Op.
- C452004 [New] VCS Label: A4_1L
[VCS Label A4_1L] Check that memberships with multiple choices are evaluated as required, and that the correct equality operation is called for untagged record types.
- C452004 [Allowed Modification] New VCS Label: A4_1Q Org VCS Label: A4_1L
Required after 2020-07-01
LTemp and RTemp @ 136 and 164 should be declared Integer rather than Natural, as the numerators are of type Integer and can be negative.
- C452005 [New] VCS Label: A4_1L
Check that memberships with multiple choices call the correct equality operation for array types.
- C452006 [New] VCS Label: A4_1M
[VCS Label A4_1L] Check that memberships with multiple choices call the correct equality operation for access types.
[VCS Label A4_1M] Corrected to remove cases made illegal by AI12-0328-1.
- C452A01 [New] VCS Label: A4_1K
Check that "=" for language-defined private types behaves as if it is predefined. Part 1: core types.
- C452A02 [New] VCS Label: A4_1K
Check that "=" for language-defined private types behaves as if it is predefined. Part 2: types of the Ada.Strings subsystem.
- C452A03 [New] VCS Label: A4_1K
Check that "=" for language-defined private types behaves as if it is predefined. Part 3: Annex C types.
- C453001 [New] VCS Label: A4_1D
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.
- B457001 [Modified] VCS Label: A4_1F

Fixed overlong lines. Added location indicators.

- B457004 [Modified] VCS Label: A4_1F
There should not be an ERROR tag @282; Single_Highest @290 should be Single_High. Added location indicators.
- B458001 [New] VCS Label: A4_1F
Check that a quantified expression has to be surrounded in parentheses if it is not already surrounded by them.
- C460014 [New] VCS Label: A4_1C
Check that Constraint_Error is raised appropriately when converting access-to-classwide to another access type.
- C460015 [New] VCS Label: A4_1C
Check that Constraint_Error is raised appropriately when converting access-to-limited-classwide to another access type.
- B470001 [New] VCS Label: A4_1D
Check that qualified expressions are a constant view of the expression, even if the expression is a variable object.
- C470001 [New] VCS Label: A4_1D
Check that qualified expressions are a name, and thus can be used as a prefix and other places a name is required.
- C480001 [New] VCS Label: A4_1D
[VCS Label A4_1A] Check that an initialized allocator for a class-wide type does an accessibility check on the tag of the initializing object.
[VCS Label A4_1D] 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.
- B480004 [New] VCS Label: A4_1G
Check that an allocator is illegal if the access type has a Storage_Size that is statically zero.
- B48002A [Allowed Modification] New VCS Label: A4_1P Org VCS Label: A4_1
Required in ACATS 4.2
Added error location indicators.
- B48002G [Allowed Modification] New VCS Label: A4_1P Org VCS Label: A4_1
Required in ACATS 4.2
Added error location indicators.
- B48003B [Allowed Modification] New VCS Label: A4_1P Org VCS Label: A4_1
Required in ACATS 4.2
Added error location indicators.
- B48003E [Allowed Modification] New VCS Label: A4_1P Org VCS Label: A4_1
Required in ACATS 4.2
Added error location indicators.
- B490003 [Allowed Modification] New VCS Label: A4_1P Org VCS Label: A4_1
Required in ACATS 4.2
Moved error tags to more usual locations, added error location

indicators.

- B4A010C [Modified] VCS Label: A4_1G
Added additional error locations to directly support common error reporting strategies.
- C52101A [Modified] VCS Label: A4_1A
Corrected comment @49 not to have the form of an error tag.
- B540001 [Modified] VCS Label: A4_1G
Added additional error locations to directly support common error reporting strategies.
- B540002 [Modified] VCS Label: A4_1G
Added additional error locations to directly support common error reporting strategies.
- B54B01B [Modified] VCS Label: A4_1G
Added additional error locations to directly support common error reporting strategies.
- B54B01C [Modified] VCS Label: A4_1G
Added additional error locations to directly support common error reporting strategies.
- B54B02B [Modified] VCS Label: A4_1G
Added additional error locations to directly support common error reporting strategies.
- B54B02C [Modified] VCS Label: A4_1G
Added additional error locations to directly support common error reporting strategies.
- B54B02D [Modified] VCS Label: A4_1G
Added additional error locations to directly support common error reporting strategies.
- B54B04A [Modified] VCS Label: A4_1G
Added additional error locations to directly support common error reporting strategies.
- B54B04B [Modified] VCS Label: A4_1G
Added additional error locations to directly support common error reporting strategies.
- B54B05A [Modified] VCS Label: A4_1G
Added additional error locations to directly support common error reporting strategies.
- B551002 [Modified] VCS Label: A4_1N
Revised test to remove dependence on Ada.Iterator_Interfaces.
- B552A01 [Modified] VCS Label: A4_1G
Added additional error locations to directly support common error reporting strategies. Fixed an overlong line.
- B55B12B [Modified] VCS Label: A4_1G

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

B55B12C [Modified] VCS Label: A4_1G

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

B56001A [Allowed Modification] New VCS Label: A4_1P Org VCS Label: A4_1
Required in ACATS 4.2

Added error location indicators.

B57001B [Allowed Modification] New VCS Label: A4_1P Org VCS Label: A4_1
Required in ACATS 4.2

Added error location indicators.

B611001 [New] VCS Label: A4_1A

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

B611002 [New] VCS Label: A4_1C

[VCS Label A4_1A] Check that Pre and Post are not allowed on subprograms acting as completions.

[VCS Label A4_1C] Corrected several error location codes.

B611003 [New] VCS Label: A4_1A

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

B611004 [New] VCS Label: A4_1A

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

B611005 [New] VCS Label: A4_1A

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

B611006 [New] VCS Label: A4_1C

[VCS Label A4_1A] Check that the restrictions on Pre'Class and Post'Class expressions added by AI12-0113-1 are enforced.

[VCS Label A4_1C] 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).

B611007 [New] VCS Label: A4_1F

[VCS Label A4_1A] Check that Pre'Class and Post'Class are not allowed on entries and protected subprograms of untagged task and protected types.

[VCS Label A4_1F] Corrected preconditions @77 and @110 not to violate the new rule added by Binding Interpretation AI12-0166-1.

B611008 [New] VCS Label: A4_1A

Check various rules about the use of the Result attribute.

B611009 [New] VCS Label: A4_1A

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

B611010 [New] VCS Label: A4_1A

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

B611011 [New] VCS Label: A4_1A

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

B611012 [New] VCS Label: A4_1A

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

B611013 [New] VCS Label: A4_1A

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

B611014 [New] VCS Label: A4_1C

[VCS Label A4_1B] If an Old attribute reference occurs at a place where it is potentially unevaluated, check that the prefix must statically denote an object.

[VCS Label A4_1C] Corrected error location codes @240 and @252.

B611015 [New] VCS Label: A4_1B

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

B611016 [New] VCS Label: A4_1B

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

B611017 [New] VCS Label: A4_1C

[VCS Label A4_1B] Check that Pre'Class cannot be specified for an overriding of a subprogram that does not specify Pre'Class.

[VCS Label A4_1C] 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.

B611018 [New] VCS Label: A4_1C

[VCS Label A4_1B] Check 6.1.1(10-16/3).

[VCS Label A4_1C] Type T08 @230 and @241 needs to be declared abstract.

B611019 [New] VCS Label: A4_1C

[VCS Label A4_1B] Check 6.1.1(17/3).

[VCS Label A4_1C] The declaration of Get_Count @112 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_1C

[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.

[VCS Label A4_1C] 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_1C

[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.

[VCS Label A4_1C] The main subprogram name was corrected to follow the rules of the ACATS User's Guide, clause 4.3.3.

C611A04 [New] VCS Label: A4_1D

[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 overlong lines.

C611B01 [New] VCS Label: A4_1C

[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).

[VCS Label A4_1C] 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_1C

[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).

[VCS Label A4_1C] The main subprogram name was corrected to follow the rules of the ACATS User's Guide, clause 4.3.3.

C611B03 [New] VCS Label: A4_1D

[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 overlong lines.

C620002 [Pending New] New VCS Label: A4_1R

Required after 2021-01-01

Modernizes, adds test cases to, and eliminates illegal calls from legacy test C95072A.

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).

B631001 [New] VCS Label: A4_1N

Check that a prefixed view is intrinsic.

B65005A [Modified] VCS Label: A4_1D

Added additional error locations to directly support common error

reporting strategies.

B65005B [Modified] VCS Label: A4_1D

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 [New] VCS Label: A4_1D

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 [New] VCS Label: A4_1D

Check that a nonreturning procedure can raise an exception and raises Program_Error otherwise (pragma No_Return version).

B651002 [New] VCS Label: A4_1D

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 [New] VCS Label: A4_1D

Check that a nonreturning procedure can raise an exception and raises Program_Error otherwise (aspect No_Return version).

B651003 [New] VCS Label: A4_1D

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.

B660002 [Allowed Modification] New VCS Label: A4_1P Org VCS Label: A4_1
Required in ACATS 4.2

Added error location indicators.

B660003 [Allowed Modification] New VCS Label: A4_1P Org VCS Label: A4_1
Required in ACATS 4.2

Fixed overlong lines, added error location indicators.

B66001A [Allowed Modification] New VCS Label: A4_1P Org VCS Label: A4_1
Required in ACATS 4.2

Added error location indicators.

B66001B [Allowed Modification] New VCS Label: A4_1P Org VCS Label: A4_1
Required in ACATS 4.2

Added error location indicators.

B680001 [Modified] VCS Label: A4_1F

The immediately enclosing expression function @140 does not declare a parameter A, but A is used @141. Added location indicators.

B730006 [Modified] VCS Label: A4_1C

Corrected format of error tags; added location indicators.

B730011 [New] VCS Label: A4_1C
Test various rules about completions of private types and extensions; replaces test B74001A.

B730012 [New] VCS Label: A4_1C
Test various rules about completions of private types and extensions in generic units; replaces test B74001B.

B730013 [New] VCS Label: A4_1D
Test operations available for a private type; replaces test B74203E.

B73001A [Modified] VCS Label: A4_1C
Added additional error locations to directly support common error reporting strategies.

B73001B [Modified] VCS Label: A4_1C
Added additional error locations to directly support common error reporting strategies.

B73001C [Modified] VCS Label: A4_1C
Added additional error locations to directly support common error reporting strategies.

B73001D [Modified] VCS Label: A4_1C
Added additional error locations to directly support common error reporting strategies.

B73001E [Modified] VCS Label: A4_1C
Added additional error locations to directly support common error reporting strategies.

B73001F [Modified] VCS Label: A4_1C
Added additional error locations to directly support common error reporting strategies.

B73001G [Modified] VCS Label: A4_1C
Added additional error locations to directly support common error reporting strategies.

B73001H [Modified] VCS Label: A4_1C
Added additional error locations to directly support common error reporting strategies.

B740003 [Modified] VCS Label: A4_1H
[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.
[VCS Label A4_1H] Modified grading to document that processing the main is optional. Added error location indicators.

B74001A [Withdrawn] VCS Label: A4_1C
Replaced by B730011.

B74001B [Withdrawn] VCS Label: A4_1C
Replaced by B730012.

B74203E [Withdrawn] VCS Label: A4_1D
Replaced by B730013.

B750A07 [New] VCS Label: A4_1G
[VCS Label A4_1A] Check that only legal expressions are allowed in the return expression of an expression function that returns a limited type.
[VCS Label A1_1G] Adjusted error indicators to allow the error to be reported anywhere in a multi-line expression.

C760A02 [New] VCS Label: A4_1G
Checks that functions that return immutably limited types are built-in-place.

C760A03 [New] VCS Label: A4_1G
Checks that expression functions that return immutably limited types are built-in-place.

B83027B [Modified] VCS Label: A4_1G
The discriminant @90 needs a default expression as all or none of the discriminants of a type need defaults. Also added error location indicators.

B83027D [Modified] VCS Label: A4_1G
Corrected bad error tag, and added error location indicators.

B831006 [New] VCS Label: A4_1K
Checks that overriding indicators cannot be given on any subprogram declaration in a protected body.

B83E01B [Modified] VCS Label: A4_1G
Removed possible error cascades, reformatted some error tags, and added error location indicators.

B83F02C [Modified] VCS Label: A4_1A
Updated many optional error markers to match ACATS standards.

B85002A [Withdrawn] VCS Label: A4_1H
Replaced by B851005.

B85003A [Withdrawn] VCS Label: A4_1H
Replaced by B851007.

B85003B [Withdrawn] VCS Label: A4_1H
Replaced by B851007.

B851004 [Modified] VCS Label: A4_1J
Revised test to eliminate cases whose result would be changed by pending AI12-0287-1, and added cases to preserve complete testing.

B851005 [New] VCS Label: A4_1H
Checks that "known to be constrained" is properly enforced for renames. Part 1: "Normal" cases (no generics or access cases).

B851006 [New] VCS Label: A4_1H

Checks that "known to be constrained" is properly enforced for renames. Part 2: Access cases.

- B851007 [New] VCS Label: A4_1K
[VCS Label A4_1H] Checks that "known to be constrained" is properly enforced for renames. Part 3: Generic cases.
[VCS Label A4_1K] Corrected types of declaration @198 and @214, and mode @328.
- B853001 [New] VCS Label: A4_1H
Checks that a renamed limited view cannot be used where there is not a with for the original package.
- B854002 [New] VCS Label: A4_1J
[VCS Label A4_1H] When parameter or result has a null exclusion for a subprogram rename, check that the subtype of the corresponding parameter or result of the renamed subprogram must exclude null.
[VCS Label A4_1J] Corrected wording of the second test objective.
- B854002 [Allowed Modification] New VCS Label: A4_1R Org VCS Label: A4_1J
Required after 2020-10-01
[VCS Label A4_1R] Corrected error markers on RenG51, RenG61, RenGF51, and RenGF61. Corrected renaming @412 to rename the correct function.
- B854003 [New] VCS Label: A4_1J
Check various rules about renames as body: conformance of both the renaming and renamed entity, and renaming of abstract and intrinsic subprograms.
- B854004 [New] VCS Label: A4_1J
Check that renaming a subprogram that requires overriding is illegal.
- B854005 [New] VCS Label: A4_1J
Check that a renaming of a prefixed view is illegal if renaming the prefix as an object is illegal.
- B860002 [Pending New] New VCS Label: A4_1Q
Required after 2020-10-01
Check that implicit conversions of access types don't allow too much.
- B91003A [Modified] VCS Label: A4_1C
Added additional error locations to directly support common error reporting strategies.
- B91003B [Modified] VCS Label: A4_1C
Added additional error locations to directly support common error reporting strategies.
- B91003C [Modified] VCS Label: A4_1C
Added additional error locations to directly support common error reporting strategies.
- B91003D [Modified] VCS Label: A4_1C

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

B940003 [Modified] VCS Label: A4_1C
Added additional error locations to directly support common error reporting strategies.

B940004 [Modified] VCS Label: A4_1C
Split into 8 files; added location indicators.

B940008 [New] VCS Label: A4_1M
Check the overriding indicators work properly on protected subprograms.

B940009 [New] VCS Label: A4_1M
Check that the mode and type of the first parameter of protected operations that implement inherited subprograms is correct.

B940010 [New] VCS Label: A4_1M
Check that a protected operation and a primitive subprogram of a tagged protected type cannot have the same profile.

B940011 [New] VCS Label: A4_1M
Check that an protected operation and the associated inherited operation must subtype conform. Check that inherited operations must be implemented, overridden, or be a null procedure.

C940017 [New] VCS Label: A4_1M
Check that dispatching calls can be made through a protected interface and that they can be implemented with protected subprograms and entries.

C94001A [Modified] VCS Label: A4_1M
Revised test to replace excessive delays with Impdef constants.

C94001B [Modified] VCS Label: A4_1M
Revised test to replace excessive delays with Impdef constants.

C94001C [Modified] VCS Label: A4_1M
Revised test to replace excessive delays with Impdef constants.

C94002A [Modified] VCS Label: A4_1M
Revised test to replace excessive delays with Impdef constants.

C94004A [Modified] VCS Label: A4_1M
Revised test to replace excessive delays with Impdef constants.

C94004B [Modified] VCS Label: A4_1M
Revised test to replace excessive delays with Impdef constants.

C94004C [Modified] VCS Label: A4_1M
Revised test to replace excessive delays with Impdef constants.

C94005A [Modified] VCS Label: A4_1M
Revised test to replace excessive delays with Impdef constants.

C94005B [Modified] VCS Label: A4_1M

Revised test to replace excessive delays with Impdef constants.

C94007A [Modified] VCS Label: A4_1M
Revised test to replace excessive delays with Impdef constants.

C94010A [Modified] VCS Label: A4_1M
Revised test to replace excessive delays with Impdef constants.

B95007B [Modified] VCS Label: A4_1A
Fixed error markers @62,66,70 to match ACATS standards.

C95012A [Modified] VCS Label: A4_1M
Revised test to replace excessive delays with Impdef constants.

C95072A [Withdrawn] VCS Label: A4_1R
Replaced by C620002; it violated the anti-order dependence rules of 6.4.1.

B952005 [New] VCS Label: A4_1M
Check the overriding indicators work properly on task and protected entries.

C97307A [Modified] VCS Label: A4_1M
Revised test to replace excessive delays with Impdef constants.

BA1001D [Modified] VCS Label: A4_1G
Revised to mark the main subprogram as optional, as it is not necessary to check the test objective. Added error location indicators.

BA1020F [Modified] VCS Label: A4_1G
Revised to mark the main subprogram as optional, as it is not necessary to check the test objective. Added error location indicators.

BA11007 [Modified] VCS Label: A4_1G
Split into six test files to avoid requiring error recovery.

BA11013 [Modified] VCS Label: A4_1G
Revised to make processing the last compilation unit optional, as it is not necessary to check the test objective. Added error location indicators.

BA1101E [Withdrawn] Org VCS Label: A4_1G
Replaced by test BA14001.

BA12010 [Modified] VCS Label: A4_1G
Revised to use Possible Error tags, and added error location indicators.

BA12018 [New] VCS Label: A4_1H
Check that names mentioned but not named in a private with are also treated as privately withed.

BA14001 [New] VCS Label: A4_1G
Replaces test BA1101E with modern format and additional test cases for Ada 95 compilation units.

BA14002 [New] VCS Label: A4_1G
Similar to BA14001, testing private with.

BA14003 [New] VCS Label: A4_1G
Checks that a unit is illegal if it depends on two versions of the same unit.

BA21005 [New] VCS Label: A4_1D
Test that Pure and Preelaborate aspects cannot be specified late, with a nonstatic expression, or an expression of a type other than Boolean.

BB42001 [New] VCS Label: A4_1C
[VCS Label A4_1A] Check that the arguments of a pragma Assert have to have the correct types.
[VCS Label A4_1C] Corrected two incorrect error location codes.

CB42001 [New] VCS Label: A4_1A
Check the usual operation of pragma Assert, including the optional message.

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

CB42002 [New] 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.

CC3601C [Modified] VCS Label: A4_1E
Moved "=" for type Rec in order that it not violate 4.5.2(9.8/4).

BC40003 [Pending New] VCS Label: A4_1J
[VCS A4_1H] Checks that the subtype of the actual for a generic formal object with a null exclusion must exclude null.
[VCS A4_1J] Revised test to eliminate cases whose result would be changed by pending AI12-0287-1, and to preserve complete testing.

CC51010 [Modified] VCS Label: A4_1F
The main subprogram name was corrected to follow the rules of the ACATS User's Guide, clause 4.3.3.

BC51016 [Modified] VCS Label: A4_1G
Corrected bad error tag, and added error location indicators.

BC51019 [Allowed Modification] New VCS Label: A4_1P Org VCS Label: A4_1
Required in ACATS 4.2

Added error location indicators.

BC51020 [Allowed Modification] New VCS Label: A4_1P Org VCS Label: A4_1
Required in ACATS 4.2
Added error location indicators.

BC51B02 [Allowed Modification] New VCS Label: A4_1P Org VCS Label: A4_1
Required in ACATS 4.2
Added error location indicators.

BC51C01 [Allowed Modification] New VCS Label: A4_1P Org VCS Label: A4_1
Required in ACATS 4.2
Added error location indicators.

BC51C02 [Allowed Modification] New VCS Label: A4_1P Org VCS Label: A4_1
Required in ACATS 4.2
Added error location indicators.

BC54004 [New] VCS Label: A4_1H
Checks that the null exclusion of the formal type and of the
actual subtype for a generic formal access type must match.

BC55001 [Pending New] New VCS Label: A4_1P
Required after 2020-07-01
Check that formal interface types cannot be used in contexts that
do not allow abstract types.

BC60005 [New] VCS Label: A4_1J
[VCS Label A4_1H] Checks that the subtype of a parameter or result
of the actual subprogram for a generic formal subprogram where the
corresponding parameter or result has a null exclusion must
exclude null.
[VCS Label A4_1J] Corrected wording of the second test objective.

BC60005 [Allowed Modification] New VCS Label: A4_1R Org VCS Label: A4_1J
Required after 2020-10-01
[VCS Label A4_1Q] Corrected error markers on InstG51, InstG61,
InstGF51, and InstGF61.
[VCS Label A4_1R] Corrected instance @437 to use correct actual
parameter.

BD10001 [Pending New] New VCS Label: A4_1R
Required after 2021-01-01
Check that an aspect cannot be specified in multiple ways for a
single entity.

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 [New] VCS Label: A4_1D
Check Legality Rules are enforced when Size is specified by an aspect specification for a type.

BD30002 [New] VCS Label: A4_1D
Check Legality Rules are enforced when Alignment is specified by an aspect specification for a type.

BD30003 [New] VCS Label: A4_1D
Check Legality Rules are enforced when Component_Size is specified by an aspect specification.

CD30010 [New] VCS Label: A4_1D
Check that Component_Size can be specified via an aspect specification.

CD30011 [New] VCS Label: A4_1D
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: A4_1D
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.

BDB0A01 [Modified] VCS Label: A4_1G
Revised to use Possible Error tags, and added error location indicators.

BDB2001 [New] VCS Label: A4_1G
Check that a call on an instance of Unchecked_Deallocation is illegal if the access type has a Storage_Size that is statically zero.

BDB4001 [Pending New] New VCS Label: A4_1P
Required after 2020-07-01
Check that the object for a pool that supports subpools is

declared in the same scope as the access type that uses it.

BDD2003 [Modified] VCS Label: A4_1G
Added additional error locations to directly support common error reporting strategies.

BDD2006 [Pending New] New VCS Label: A4_1Q
Required after 2020-10-01
Check that the requirements for specifying the Stream_Size attribute are enforced.

BDD2007 [Pending New] New VCS Label: A4_1Q
Required after 2020-10-01
Check that the requirements for specifying the Stream_Size attribute are enforced.

CDD2B01 [Pending New] New VCS Label: A4_1Q
Required after 2020-10-01
Check that confirming Stream_Size attributes work as expected.

CDD2B03 [Pending New] New VCS Label: A4_1Q
Required after 2020-10-01
Check that confirming Stream_Size aspects work as expected.

CDD2B03 [Pending New] VCS Label: A4_1Q
Required after 2020-10-01
Check that non-confirming Stream_Size attributes work as expected.

CDD2B04 [Pending New] VCS Label: A4_1Q
Required after 2020-10-01
Check that non-confirming Stream_Size aspects work as expected.

CDE0002 [Modified] VCS Label: A4_1E
Changed to use Storage_Size rather than Size so that the static expression rule of 13.14(7.2/3) is not triggered.

CXAC009 [New] VCS Label: A4_1D
Check that Stream_IO.File_Type has Preelaborable_Initialization.

CXAG003 [New] VCS Label: A4_1H
[VCS Label A4_1G] Check that function Ada.Directories.Name_Case_Equivalence exists and that it reflects the handling of file names.
[VCS Label A4_1H] Added "return;" @171; if the file can't be opened, the Read_File trial is complete.

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
=====

BXC6A03 [Modified] VCS Label: A4_1G
Changed subtest result to require the changes of AI05-0218-1.

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

CXD2007 [Modified] VCS Label: A4_1C
Added missing N/A => Error tag.

LXD7001 [Modified] VCS Label: A4_1C
Added missing error tag.

LXD7003 [Modified] VCS Label: A4_1C
Added missing error tag.

LXD7004 [Modified] VCS Label: A4_1C
Added missing error tag.

LXD7005 [Modified] VCS Label: A4_1C
Added missing error tag.

LXD7006 [Modified] VCS Label: A4_1C
Added missing error tag.

LXD7007 [Modified] VCS Label: A4_1C
Added missing error tag.

LXD7008 [Modified] VCS Label: A4_1C
Added missing error tag.

LXD7009 [Modified] VCS Label: A4_1C
Added location indicators.

CXDB001 [Modified] VCS Label: A4_1C
Added missing N/A => Error tag.

CXDB002 [Modified] VCS Label: A4_1C
Added missing N/A => Error tag.

CXDB003 [Modified] VCS Label: A4_1C
Added missing N/A => Error tag.

CXDB004 [Modified] VCS Label: A4_1C
Added missing N/A => Error tag.

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Annex E
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[None.]

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Annex F
=====

[None.]

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Annex G
=====

[None.]

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

LXH4001 [Modified] VCS Label: A4_1C
Corrected format of error tag; added location indicators.

LXH4003 [Modified] VCS Label: A4_1C
Corrected format of error tag; added location indicators.

LXH4006 [Modified] VCS Label: A4_1C
Added missing error tags.

LXH4009 [Modified] VCS Label: A4_1C
Added missing error tags.

LXH4013 [Modified] VCS Label: A4_1C
Added missing error tags.

LXH4014 [Modified] VCS Label: A4_1C
Added missing error tags.

===== Support =====

F350A00 [Pending New] New VCS Label: A4_1R
Required after 2021-01-01
A foundation for discrete specified Default_Value tests.

F350B00 [Pending New] New VCS Label: A4_1R
Required after 2021-01-01
A foundation for real specified Default_Value tests.

F611A00 [New] VCS Label: A4_1C
[VCS Label A4_1A] Foundation for tests C611A01, C611A02, and C611A03.
[VCS Label A4_1C] 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.

FDD2B00 [Pending New] New VCS Label: A4_1Q
Required after 2020-10-01
A foundation for Stream_Size aspect tests.

GRADE.A [Modified] VCS Label: A4_1G
[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.
[VCS Label A4_1G] Corrected call @1578 so that the special handling flag rather than the failed flag is used with a manual grading message for a missing error set. (The actual grade was correct, only the message was wrong.)

GRD_DATA.A [Modified] VCS Label: A4_1P
[VCS Label A4_1D] Increased table sizes as the new tests have caused grading the entire ACATS to exceed the old limits.

[VCS Label A4_1M] Generalized reading of white space in order to be more resilient, especially on Unix-like systems.
[VCS Label A4_1P] MAX_SUMMARY_ITEMS @66 was increased to 40_000 as the ACATS has grown to exceed the old limit.

SPECIAL.A [Modified] VCS Label: A4_1J
[VCS Label A4_1C] Added test BA21005 to the list of optional main subprograms.
[VCS Label A4_1H] Added seven tests to the list of optional main subprograms.
[VCS Label A4_1J] Added more tests to the list of optional main subprograms.

SUMMARY.A [Modified] VCS Label: A4_1C
Corrected identification of main subprograms in modern tests.
Changed the unit name for subunits to be the full expanded name including the parent name.

TCTOUCH.ADA [Modified] VCS Label: A4_1H
Added code so that Touch only reports buffer overflow once. Fixed the Id string.

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_1R.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)

B74001A
B74001B
B74203E
B85002A
B85003A

B85003B
BA1101E
C95072A
CD1009A
CD1009B
CD1009L
CD1009M
CD2A21C
CD2A31C

Allowed Modification Tests

(Refer to the main list for details)

B32201A	ACATS 4.2
B33101A	ACATS 4.2
B38103A	ACATS 4.2
B38103B	ACATS 4.2
B38103C	ACATS 4.2
B38103D	ACATS 4.2
B38103E	ACATS 4.2
B48002A	ACATS 4.2
B48002G	ACATS 4.2
B48003B	ACATS 4.2
B48003E	ACATS 4.2
B490003	ACATS 4.2
B56001A	ACATS 4.2
B57001B	ACATS 4.2
B660002	ACATS 4.2
B660003	ACATS 4.2
B66001A	ACATS 4.2
B66001B	ACATS 4.2
B854002	2020-10-01 [VCS Label A4_1R]
BC51019	ACATS 4.2
BC51020	ACATS 4.2
BC51B02	ACATS 4.2
BC51C01	ACATS 4.2
BC51C02	ACATS 4.2
BC60005	2020-10-01 [VCS Label A4_1R]
C452003	2020-10-01 [VCS Label A4_1R]
C452004	2020-07-01

Modified Tests

(Refer to the main list for details)

B33001A
B37309B
B37310B
B37311A
B38003D
B392002
B392003
B392004

B392005
B393001
B393007
B393010
B3A1001
B3A1002
B3A2007
B3A2008
B3A2009
B3A2011
B3A2012
B3A2016
B413004
B455002
B457001
B457004
B4A010C
B540001
B540002
B54B01B
B54B01C
B54B02B
B54B02C
B54B02D
B54B04A
B54B04B
B54B05A
B551002
B552A01
B55B12B
B55B12C
B62001C
B62001D
B63005A
B65005B
B680001
B730006
B73001A
B73001B
B73001C
B73001D
B73001E
B73001F
B73001G
B73001H
B732C02
B740003
B83027B
B83027D
B83E01B
B83F02C
B851004
B95007B
B91003A
B91003B
B91003C
B91003D

B940003
B940004
BA1001D
BA1020F
BA11007
BA11013
BA12010
BC51016
BB42001
BD4003A
BDB0A01
BDD2003
BXC6A03
C352001
C415001
C52101A
C94001A
C94001B
C94001C
C94002A
C94004A
C94004B
C94004C
C94005A
C94005B
C94007A
C94010A
C95012A
C97307A
CC3601C
CC51010
CDE0002
CXD2007
CXDB001
CXDB002
CXDB003
CXDB004
LXD7001
LXD7003
LXD7004
LXD7005
LXD7006
LXD7007
LXD7008
LXD7009
LXH4001
LXH4003
LXH4006
LXH4009
LXH4013
LXH4014
GRADE
GRD_DATA
SPECIAL
SUMMARY
TCTOUCH.ADA

New Tests

(Refer to the main list for details)

B354002
B35A001
B3A2018
B452001
B452002
B458001
B480004
B611001
B611002
B611003
B611004
B611005
B611006
B611007
B611008
B611009
B611010
B611011
B611012
B611013
B611014
B611015
B611016
B611017
B611018
B611019
B631001
B651001
B651002
B641003
B730011
B730012
B730013
B750A07
B831006
B851005
B851006
B851007
B853001
B854002 [VCS Label A4_1J]
B854003
B854004
B940008
B940009
B940010
B940011
B952005
BA12018
BA14001
BA14002
BA14003

BA21005
BB42001
BB42002
BB42003
BC40003
BC54004
BC60005 [VCS Label A4_1J]
BD30001
BD30002
BD30003
BDB2001
C350001
C354004
C35A001
C3A0030
C452002
C452003 [VCS Label A4_1K]
C452004 [VCS Label A4_1L]
C452005
C452006
C452A01
C452A02
C452A03
C453001
C460014
C460015
C470001
C480001
C611A01
C611A02
C611A03
C611A04
C611B01
C611B02
C611B03
C650B04
C651001
C651002
C760A02
C760A03
C940017
CB42001
CB42002
CB42003
CD11001
CD30010
CD30011
CD30012
CXAC009
CXAG003
CXB3023
CXB3024
F611A00
F611B00

Pending New Tests

(Refer to the main list for details)

B350001	2020-10-01
B360001	2020-10-01
B393012	2020-07-01
B393013	2020-07-01
B431007	2020-07-01
B432002	2020-07-01
B432003	2020-07-01
B860002	2020-10-01
BC55001	2020-07-01
BD10001	2021-01-01
BDB4001	2020-07-01
BDD2006	2020-10-01
BDD2007	2020-10-01
C350A01	2021-01-01
C350A02	2021-01-01
C350B01	2021-01-01
C350B02	2021-01-01
C620002	2021-01-01
CDD2B01	2020-10-01
CDD2B02	2020-10-01
CDD2B03	2020-10-01
CDD2B04	2020-10-01
F350A00	2021-01-01
F350B00	2021-01-01
FDD2B00	2020-10-01