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**Technical Corrigendum 1**

**ISO/IEC 1989:2002**

**Information technology — Programming languages — COBOL**

ISO/IEC JTC 1/SC 22/WG 4

Secretariat: ANSI

## Introduction

This Technical Corrigendum contains corrections and clarifications that apply to ISO/IEC 1989:2002, Information technology — Programming languages — COBOL.

The defect reports associated with these changes are contained in Record of Response 1 for ISO/IEC 1989:2002, Information technology — Programming languages — COBOL. The related defect report number is indicated in brackets at the end of each change item. [DR-1], for example, is a reference to Defect Report 1989/001.

## Changes to ISO/IEC 1989:2002

1. Page 1, Scope, third paragraph, third bullet, change "classes" to "classes and interfaces". [DR-10]
2. Page 68, 8.3.1.1.1, User-defined words, last paragraph (beginning "When a CALL statement, a CANCEL statement, ..."), item 1, change in part to read:  
  
"... determined by the entry convention indicated by the description of the program to be called, as specified in 12.2.7.3, REPOSITORY paragraph, General rule 10." [DR-8]
3. Page 166, 9.3.12, Parameterized classes, third paragraph, first sentence, change in part to read: "When a class is specified as the parameterized class in an EXPANDS phrase in the REPOSITORY paragraph, ..." [DR-10]
4. Page 176, 11.2.2, CLASS-ID paragraph, Syntax rules, syntax rule 4, delete the second sentence (beginning "Class-name-2 shall not be the name ...") [DR-10]
5. Page 206, 12.2.7.3, REPOSITORY paragraph, General rules, general rule 1, add a second paragraph as follows:  
"If class-name-1 is a class described with the USING phrase, class-name-1 may be specified only in the REPOSITORY paragraph." [DR-10]
6. Page 207, 12.2.7.3, REPOSITORY paragraph, General rules, general rule 7, add a second paragraph as follows:  
"If interface-name-1 is an interface described with the USING phrase, interface-name-1 may be specified only in the REPOSITORY paragraph." [DR-10]
7. Page 286, 13.16.22.3, FORMAT clause, General rules, delete general rule 2)c)3.d (beginning "If the literal is a fixed-point numeric ...") and general rule 2)c)3.e (beginning "If the literal is a floating-point numeric ..."). [DR-3]
8. Page 356, 13.16.55.3, TYPE clause, General rules, general rule 1, delete the note that immediately follows the rule. [DR-17]

9. Page 359, 13.16.56.2, TYPEDEF clause, Syntax rules, add a new syntax rule after syntax rule 1 as follows:
- "2) Neither the description of the subject of the entry nor the description of any data item subordinate to the subject of the entry shall directly or indirectly describe a data item of type type-name." [DR-17]
10. Page 396, Table 14 — Exception-names and exception conditions, entry for EC-OO-RESOURCE, in the Description column, delete "or expand the object". [DR-10]
11. Pages 407 and 408, 14.7.2.2, Elementary items, first paragraph, replace item 2 and its subitems a, b, c, d, and e with the following:

"2) If the returning item in the activated element is described with an ACTIVE-CLASS phrase, the conformance rules are the same as the conformance rules for a SET statement specified in the activating element with the following operands:

- a) A receiving operand that is the returning item in the activating element.
- b) A sending operand that is an object reference described as follows:
  - a) If the activated method is invoked with a class-name, the sending object reference is described with that same class-name and an ONLY phrase.
  - b) If the activated method is invoked with the predefined object reference SELF or SUPER, the sending object reference is described with an ACTIVE-CLASS phrase.
  - c) If the activated method is invoked with an object reference that is described with an interface-name, the sending object reference is a universal object reference.
  - d) If the activated method is invoked with any other object reference, the sending operand has the same description as that object reference.

If the sending operand defined above is described with a class-name or an ACTIVE-CLASS phrase, the presence or absence of the FACTORY phrase is the same as in the returning item of the activated element." [DR-7]

12. Page 422, 14.8.4.2, CALL statement, Syntax rules, add the following under format 3, after syntax rule 13, as new syntax rule 13a:
- "13a) If identifier-1 references a restricted program-pointer, the signature of the program-prototype specified in the definition of that pointer shall be the same as the signature of program-prototype-name-1." [DR-1]
13. Page 424, 14.8.4.3, CALL statement, General rules, replace general rule 7 with the following:  
"If the NESTED phrase is not specified, program-prototype-name-1 is used to determine the characteristics of the called program." [DR-1]

14. Page 503, 14.8.30.2, RELEASE statement, Syntax rules, syntax rule 2, delete the second sentence (beginning "Record-name-1 and identifier-1 ...") [DR-4]
15. Page 505, 14.8.32.2, RETURN statement, Syntax rules, delete syntax rule 1. [DR-4]
16. Page 519, 14.8.35.2, SET statement, syntax rule 13, change in part to read:

"... described with the FACTORY phrase, and the following rules apply:

  - a) if the data item referenced by identifier-3 is described with the ONLY phrase, class-name-1 shall be the class-name specified in the description of the data item referenced by identifier-3;
  - b) otherwise, class-name-1 shall reference the same class or a subclass of the class specified in the description of the data item referenced by identifier-3." [DR-13]
17. Page 684, B.1, Implementor-defined language element list, Item 107, in the header, change "classes" to "classes and interfaces". [DR-10]
18. Page 827, F.2, Substantive changes not affecting existing programs, add the following item after item 71):

"71a) INITIALIZE statement. The syntax was enhanced to allow the specification of multiple categories in a single REPLACING phrase of an INITIALIZE statement." [DR-9]
19. Page 829, F.2, Substantive changes not affecting existing programs, add entry 112a after entry 112 as follows:

"112a) RELEASE statement: The rule prohibiting record-name-1 and identifier-1 from referencing the same storage area has been deleted. The results are undefined, according to the rules for overlapping operands." [DR-4]
20. Page 830, F.2, Substantive changes not affecting existing programs, add entry 116a after entry 116 as follows:

"116a) RETURN statement: The rule prohibiting the storage area associated with identifier-1 and the record area associated with file-name-1 from being the same storage area has been deleted. The results are undefined, according to the rules for overlapping operands." [DR-4]

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