INTERNATIONAL STANDARD ISO 10303-101:1994
TECHNICAL CORRIGENDUM 1

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Industrial automation systems and integration — Product data representation and exchange —

Part 101:
Integrated application resources: Draughting

TECHNICAL CORRIGENDUM 1

Systèmes d'automatisation industrielle et intégration — Représentation et échange de données de produits —

Partie 101: Ressources d'application intégrées: Dessins techniques

RECTIFICATIF TECHNIQUE 1

Technical Corrigendum 1 to International Standard ISO 10303-101:1994 was prepared by Technical Committee ISO/TC 184, *Industrial automation systems and integration*, Subcommittee SC 4, *Industrial data*.

Introduction

This document corrects ISO 10303-101:1994, *Product data representation and exchange — Part 101: Integrated application resources: Draughting.* The corrected document supersedes ISO 10303-101:1994.

The purpose of the modifications to the text of ISO 10303-101:1994 is to correct errors in the EXPRESS definitions likely to cause compilation problems, to replace the annex for the computer-interpretable EXPRESS with a URL reference, and to replace the object identifiers for the document and the schema.

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Modifications to the text of ISO 10303-101:1994

Clause 4.4.6, p. 9

The EXPRESS specification of drawing_sheet_revision_usage contained logical errors in the WHERE rules. WH requires additional sets of parentheses for proper evaluation. Delete WR1 and replace WR1 with the following:

```
WR1: ('DRAWING_DEFINITION_SCHEMA.DRAWING_SHEET_REVISION' IN
              TYPEOF(SELF\area_in_set.area))
      AND
      ('DRAWING_DEFINITION_SCHEMA.DRAWING_REVISION'
         IN TYPEOF(SELF\area_in_set.in_set));
```

Clause 5.4.1, p. 15

The EXPRESS specification and the Formal proposition of dimension_curve contained errors in the WHERE rule Delete the EXPRESS specification for dimension_curve and replace with the following:

<u>EXPRESS specification</u>:

```
*)
ENTITY dimension_curve
   SUBTYPE OF (annotation_curve_occurrence);
WHERE
   wr1: (SIZEOF(
            QUERY(dct <* USEDIN(SELF,'DRAUGHTING_ELEMENT_SCHEMA.' +
                 'TERMINATOR_SYMBOL.ANNOTATED_CURVE')
               | (('DRAUGHTING_ELEMENT_SCHEMA.'+
                  'DIMENSION_CURVE_TERMINATOR' IN TYPEOF(dct))
                  ))
         ) <= 2);
   wr2: SIZEOF(
            QUERY( dcdc <* USEDIN(SELF,'DRAUGHTING_ELEMENT_SCHEMA.' +
                  'DRAUGHTING_CALLOUT.CONTENTS') |
                  ('DRAUGHTING_ELEMENT_SCHEMA.'+
                   'DIMENSION_CURVE_DIRECTED_CALLOUT' IN TYPEOF(dcdc)))
         )>= 1;
   wr3: (SIZEOF(
            QUERY(dct1 <* USEDIN(SELF,'DRAUGHTING_ELEMENT_SCHEMA.' +
                  'TERMINATOR_SYMBOL.ANNOTATED_CURVE')
               | (('DRAUGHTING_ELEMENT_SCHEMA.'+
                  'DIMENSION_CURVE_TERMINATOR' IN TYPEOF(dct1))
                  AND (dct1.role = origin)))
         ) <= 1)
       AND
          (SIZEOF(
            QUERY (dct2 <* USEDIN(SELF,'DRAUGHTING_ELEMENT_SCHEMA.'+
                  'TERMINATOR_SYMBOL.ANNOTATED_CURVE')
               | (('DRAUGHTING_ELEMENT_SCHEMA.'+
                  'DIMENSION_CURVE_TERMINATOR' IN TYPEOF(dct2))
```

```
                    AND (dct2.role = target)))
    ) <= 1);
END_ENTITY;
(*
```

In the Formal propositions, delete WR1: and replace with:

WR1: There may be zero, one, or two **dimension_curve_terminators** annotating a **dimension_curve**.

Clause 5.4.2, p. 17
The EXPRESS specification of leader_curve contained errors in the WHERE rule. Delete the EXPRESS specification for leader_curve and replace with the following:

<u>EXPRESS specification</u>:

```
*)
ENTITY leader_curve
    SUBTYPE OF (annotation_curve_occurrence);
WHERE
    WR1: SIZEOF(
            QUERY(ldc <* USEDIN( SELF, 'DRAUGHTING_ELEMENT_SCHEMA.' +
                        'DRAUGHTING_CALLOUT.CONTENTS')
                |   'DRAUGHTING_ELEMENT_SCHEMA.   +
                    LEADER_DIRECTED_CALLOUT'  IN TYPEOF(ldc))) >= 1;
END_ENTITY;
(*
```

Annex B.1, p. 34
With the changes identified in this Technical Corrigendum, the object identifier for this part of ISO 10303 has changed. Remove the object identifier for the document and replace with the following:

{ iso standard 10303 part(101) version (2) }

Annex B.2.1, p. 34
With the changes identified in this Technical Corrigendum, the object identifier for the drawing_definition_schema has changed. Remove the object identifier for the drawing_definition_schema and replace with the following:

{ iso standard 10303 part(101) version (2) object(1) drawing-definition-schema(1) }

Annex B.2.2, p. 34
With the changes identified in this Technical Corrigendum, the object identifier for the draughting_element_schema has changed. Remove the object identifier for the draughting_element_schema and replace with the following:

{ iso standard 10303 part(101) version (2) object(1) draughting-element-schema(2) }

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