INTERNATIONAL STANDARD ISO 10303-108:2005

TECHNICAL CORRIGENDUM 2

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

Part 108:

Integrated generic resource: Parameterization and constraints for explicit geometric product models

TECHNICAL CORRIGENDUM 2

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

Partie 108 Ressources génériques intégrées: Paramétrage et contraintes pour les modèles de produits géométriques explicites

RECTIFICATIF TECHNIQUE 2

Technical Corrigendum 2 to International Standard ISO 10303-108:2005 was prepared by Technical Committee ISO/ TC 184, *Automation systems and integration,* Subcommittee SC 4, *Industrial data.*

This Technical Corrigendum is intended to be used in conjunction with ISO 10303-108:2005/Cor.1: order of their publication. The purpose of the modifications to the text of ISO 10303-108:2005 is to, corrections and improvements to its EXPRESS code. The changes are mainly in the more s, qualification of attributes in the WHERE rules of entity specifications and in the coding of some functions

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Modifications to the text of ISO 10303-108:2004

Clause 4.1, Introduction, p. 15

Replace ISO13584_generic_expressions_schema *with* iso13584_generic_expressions_-schema *in the fifth* REFERENCE FROM *statement, and make the corresponding change in Note 1.*

Clause 5.1, Introduction, p. 30

Replace ISO13584_generic_expressions_schema *with* iso13584_generic_expressions_-schema *in the sixth* REFERENCE FROM *statement, and replace* ISO13584_expressions_schema *with* iso13584_expressions_schema *in the seventh* REFERENCE FROM *statement. Make the corresponding changes in Note 1.*

Clause 5.4.7, **simultaneous_constraint_group***, pp. 40 - 42*

Replace the EXPRESS code on p. 41 with the following, in which WR1 has has been modified:

EXPRESS specification:

```
*)
ENTITY simultaneous_constraint_group
  SUBTYPE OF (variational_representation_item);
  constraint_group : SET[2:?] OF constraint_group_member;
WHERE
  WR1: SIZEOF(QUERY(q <* using_representations(SELF) |
    SIZEOF(QUERY(r <* q.items |
    ('EXPLICIT_CONSTRAINT_SCHEMA.SIMULTANEOUS_CONSTRAINT_GROUP'
    IN TYPEOF(r)) AND (SIZEOF(QUERY(s <* constraint_group |
    (s IN r\simultaneous_constraint_group.constraint_group)
    AND NOT (r :=: SELF))) > 0))) > 0)) = 0;
  WR2: SIZEOF(QUERY(q <* using_representations(constraint_group[1]) |
    (SIZEOF(QUERY(r <* constraint_group |
    item_in_context(r,q.context_of_items)))
    = SIZEOF(constraint_group)))) > 0;
  WR3: SIZEOF(QUERY(q <* constraint_group |
    (('EXPLICIT_CONSTRAINT_SCHEMA.EXPLICIT_CONSTRAINT' IN TYPEOF(q))
    AND (SIZEOF(QUERY(r <* q.constrained_elements |
    SIZEOF(QUERY(s <* constraint_group |
    r IN s.reference_elements)) > 0)) > 0)))) = 0;
END_ENTITY;
(*
```

NOTE 1   Some changes were made to clause 5.4.7 by Technical Corrigendum 1 for ISO 10303-108:2004, but the original EXPRESS code of this entity was not affected by those changes.

Clause 6.1, Introduction, p. 43

Replace the sixth REFERENCE FROM *statement on p. 43 with the following, which references two additional entities from the ISO 13584* **generic_expressions_schema** *which are required by the function* **invalidate_vrep_item** *defined on pp. 49 - 51*:

```
REFERENCE FROM iso13584_generic_expressions_schema    -- ISO 13584-20
  (environment,
   generic_variable,
   variable_semantics);
```