



INTERNATIONAL STANDARD ISO 10303-216:2003
TECHNICAL CORRIGENDUM 1

Published 2008-02-15

INTERNATIONAL ORGANIZATION FOR STANDARDIZATION • МЕЖДУНАРОДНАЯ ОРГАНИЗАЦИЯ ПО СТАНДАРТИЗАЦИИ • ORGANISATION INTERNATIONALE DE NORMALISATION

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

Part 216:

Application protocol: Ship moulded forms

TECHNICAL CORRIGENDUM 1

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

Partie 216: Protocole d'application: Formes moulées de navires

RECTIFICATIF TECHNIQUE 1

Technical Corrigendum 1 to ISO 10303-216:2003 was prepared by Technical Committee ISO/TC 184, *Industrial automation systems and integration*, Subcommittee SC 4, *Industrial data*.

Introduction

This Technical Corrigendum corrects ISO 10303-216:2003, Industrial automation systems and integration — Product data representation and exchange — Part 216: Application protocol: Ship moulded forms.

The purpose of the modifications to the text of ISO 10303-216:2003 is to correct errors in the Global Rule EXPRESS definitions likely to cause compilation problems, to correct errors in the Mapping Specification, to allow unique identification of geometric surfaces to improve interoperability between this standard and other standards within the suite of shipbuilding application protocols, and to replace the object identifier for the document and the applicable schema.

Modifications to the text of ISO 10303-216:2003

Page 22, 4.1.14

The purpose for this change is to allow unique identification of geometric surfaces to improve interoperability between this standard and other standards within the suite of shipbuilding application protocols using the existing Global_id application object, add Surface_with_identifier application object to the ARM in the surface_representations UoF. Replace second paragraph with the following corrected text.

The following application objects are used by the surface_representations UoF:

- Non_manifold_surface_shape;
- Surface_shape_representation;
- Surface_with_identifier.

Page 150

The purpose for this change is to add Surface_with_identifier application object to the ARM. Insert the following new subclause after 4.2.109.1. Renumber succeeding subclauses accordingly. Add surface_with_identifier to Index.

4.2.110 Surface_with_identifier

A Surface_with_identifier is a geometric surface of any of the surface types allowed within a Non_manifold_surface_shape_representation, as specified by ISO 10303-508, additionally constrained to include a persistent, global identifier which uniquely identifies the surface.

NOTE The capability for persistent, globally unique surface identification is provided to aid in the interoperability and reuse of data between this part of ISO 10303, ISO 10303-215, and ISO 10303-218. A receiving system that has stored a surface with persistent identifier from an exchange file conforming to this part of ISO 10303 may be able to identify that the surface is an identical copy of one that is received in a separate exchange file conforming to ISO 10303-215 or 10303-218.

The data associated with a Surface_with_identifier are the following:

- id.

4.2.110.1 id

The id specifies the globally unambiguous identifier for the surface. See 4.3.109 for the application assertion.

Page 178

The purpose for this change is to add an assertion between the Surface_with_identifier and Global_id application objects in the ARM. Insert the following new subclause after 4.3.108. Renumber succeeding subclauses accordingly.

4.3.109 Surface_with_identifier to Global_id

Each Surface_with_identifier has id defined by exactly one Global_id. Each Global_id defines the id for zero, one, or many Surface_with_identifier objects.