



**INTERNATIONAL STANDARD ISO 10303-519:2000**  
**TECHNICAL CORRIGENDUM 1**

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

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

**Part 519:**

**Application interpreted construct: Geometric tolerances**

**TECHNICAL CORRIGENDUM 1**

*Systèmes d'automatisation industrielle et intégration — Représentation et échange de données de produits —  
Partie 519: Construction interprétée d'application: Tolérances géométriques*

*RECTIFICATIF TECHNIQUE 1*

(standards.iteh.ai)

[ISO/DIS 10303-239](https://standards.iteh.ai/catalog/standards/sist/a06fe7b8-ae27-4110-b740-77aa6139f058/iso-10303-519-2000-cor-1)

[https://standards.iteh.ai/catalog/standards/sist/a06fe7b8-ae27-4110-b740-77aa6139f058/iso-](https://standards.iteh.ai/catalog/standards/sist/a06fe7b8-ae27-4110-b740-77aa6139f058/iso-10303-519-2000-cor-1)

Technical Corrigendum 1 to International Standard ISO 10303-519:2000 was prepared by Technical Committee ISO/TC 184, *Industrial automation systems and integration*, Subcommittee SC 4, *Industrial data*.

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## ***Introduction***

*This document corrects ISO 10303-519:2000, Product data representation and exchange — Part 519: Application interpreted construct: Geometric tolerances. The corrected document supersedes ISO 10303-519:2000.*

*The purpose of the modifications to the text of ISO 10303-519:2000 is to correct errors in the EXPRESS definitions likely to cause a compilation problem, to correct errors in Informal propositions and Formal propositions, to replace informative figures that are affected by changes in EXPRESS definitions, and to replace the object identifier for the document and the schemas.*

**Modifications to the text of ISO 10303-519:2000**

**Clause 4, p. 5**

The EXPRESS specification for the **aic\_geometric\_tolerances** schema did not include a reference to a required data type. The required data type is an entity data type, the **shape\_aspect\_relationship** for the Formal proposition 2 in **line\_profile\_tolerance**. Add the following to the EXPRESS specification above 'USE FROM shape\_aspect\_definition\_schema':

```
USE FROM product_property_definition_schema --ISO 10303-41
    (shape_aspect_relationship);
```

With the addition of the **shape\_aspect\_relationship** taken from the **product\_property\_definition\_schema**, NOTE 2 changed. Delete NOTE 2 and replace with the following:

NOTE 2 The schemas referenced above can be found in the following parts of ISO 10303:

measure_schema	ISO 10303-41
product_property_definition_schema	ISO 10303-41
shape_aspect_definition_schema	ISO 10303-47
shape_tolerance_schema	ISO 10303-47

**Clause 4.2.11, p. 16**

The EXPRESS specification of **position\_tolerance** is revised to make it a subtype of **geometric\_tolerance** in order to provide the capability to specify such a tolerance without a datum reference. Remove the EXPRESS specification and replace with the following:

EXPRESS specification:

```
*)
ENTITY position_tolerance
    SUBTYPE OF (geometric_tolerance);
WHERE
WR1: ( NOT ('AIC_GEOMETRIC_TOLERANCES.' +
    'GEOMETRIC_TOLERANCE_WITH_DATUM_REFERENCE' IN TYPEOF (SELF)))
OR
    (SIZEOF (SELF\geometric_tolerance_with_datum_reference.
    datum_system) <= 3);
END_ENTITY;
(*
```

The text of the formal proposition does not change.

**Annex B.1, p. 21**

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(519) version (2) }

**Annex B.2, p. 21**

*With the changes identified in this Technical Corrigendum, the object identifier for the `aic_geometric_tolerances` schema has changed. Remove the object identifier for the `aic_geometric_tolerances` schema and replace with the following:*

```
{ iso standard 10303 part(519) version (2) object(1) aic-geometric-tolerances-schema(1) }
```

**Annex C, p. 25, 26**

*The EXPRESS-G diagrams figure C.3 and figure C.4 should be changed to take account of the revised definition of `position_tolerance` as a subtype of `geometric_tolerance`. Modify figure C.3 to show `position_tolerance` as a subtype of `geometric_tolerance` and remove `position_tolerance` as a subtype of `geometric_tolerance_with_datum_reference` on figure C.4. Replacement pages are provided for figures C.3 and C.4 at the end of this document.*

**Annex D, p. 28**

*With the changes identified in this Technical Corrigendum, the EXPRESS contained in digital form is incorrect. Remove the following:*

EXPRESS: <http://www.mel.nist.gov/step/parts/part519/is/>

*Replace with the following:*

EXPRESS: <http://www.mel.nist.gov/step/parts/part519/is/tc1>

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<https://standards.iteh.ai/catalog/standards/sist/a06fe7b8-ae27-4110-b740-77aa6139f058/iso-dis-10303-239>

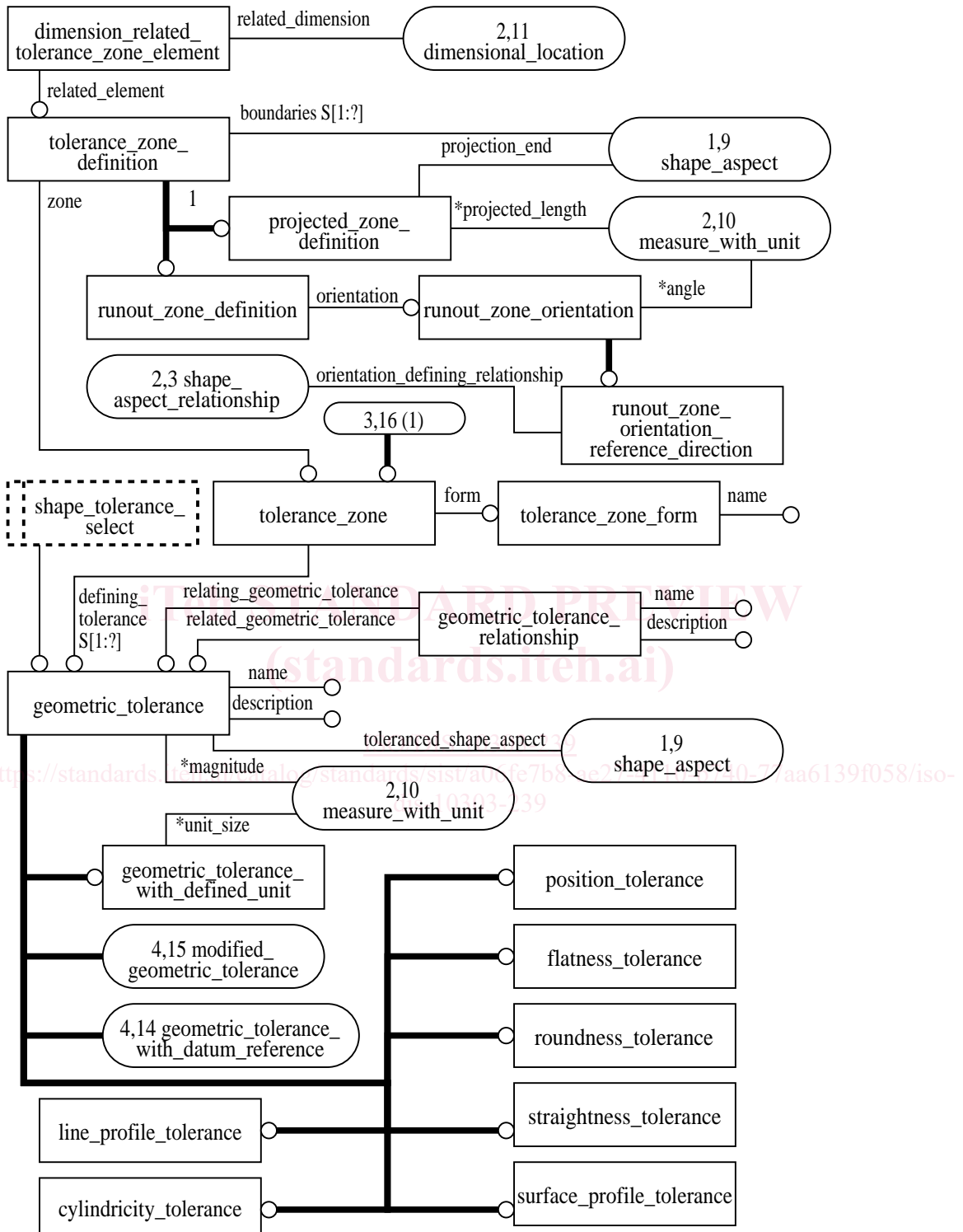


Figure C.3 – AIC expanded listing diagram in EXPRESS-G: 3 of 5