

SLOVENSKI STANDARD
SIST EN ISO 19108:2005/AC:2008
01-oktober-2008

Geografske informacije - Časovna shema (ISO 19108:2002/Cor 1:2006) - Popravek

Geographic information - Temporal schema (ISO 19108:2002/Cor 1:2006)

Geoinformation - Zeitliches Schema (ISO 19108:2002/Cor 1:2006)

Information géographique - Schéma temporel (ISO 19108:2002/Cor 1:2006)

Ta slovenski standard je istoveten z: EN ISO 19108:2005/AC:2008

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ICS:

07.040	Astronomija. Geodezija. Geografija	Astronomy. Geodesy. Geography
35.240.70	Uporabniške rešitve IT v znanosti	IT applications in science

SIST EN ISO 19108:2005/AC:2008 **en**

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EUROPEAN STANDARD

EN ISO 19108:2005/AC

NORME EUROPÉENNE

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ICS 35.240.70

English version
Version Française
Deutsche Fassung

Geographic information - Temporal schema (ISO 19108:2002/Cor 1:2006)

Information géographique - Schéma
temporel (ISO 19108:2002/Cor 1:2006)Geoinformation - Zeitliches Schema (ISO
19108:2002/Cor 1:2006)

This corrigendum becomes effective on 11 June 2008 for incorporation in the official English version of the EN.

Ce corrigendum prendra effet le 11 juin 2008 pour incorporation dans la version anglaise officielle de la EN.

Die Berichtigung tritt am 11. Juni 2008 zur Einarbeitung in die offizielle Englische Fassung der EN in Kraft.

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EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
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Ref. No.: EN ISO 19108:2005/AC:2008 E

EN ISO 19108:2005/AC:2008 (E)

Endorsement notice

The text of ISO 19108:2002/Cor.1:2006 has been approved by CEN as a European Corrigendum without any modification.

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INTERNATIONAL STANDARD ISO 19108:2002
TECHNICAL CORRIGENDUM 1

Published 2006-10-15

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

Geographic information — Temporal schema

TECHNICAL CORRIGENDUM 1

Information géographique — Schéma temporel

RECTIFICATIF TECHNIQUE 1

Technical Corrigendum 1 to ISO 19108:2002 was prepared by Technical Committee ISO/TC 211, *Geographic information/Geomatics*.

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Page 3, Clause 4

Replace 4.1.5 with the following:

4.1.5
edge

1-dimensional **topological primitive**

[ISO 19107]

NOTE The geometric realization of an edge is a curve. The boundary of an edge is the set of one or two nodes associated to the edge within a topological complex.

ISO 19108:2002/Cor.1:2006(E)

Replace 4.1.8 with the following:

4.1.8**feature association**

relationship that links instances of one feature type with instances of the same or a different feature type

[ISO 19110]

NOTE 1 A feature association may occur as a type or an instance. Feature association type or feature association instance is used when only one is meant.

NOTE 2 Feature associations include aggregation of features.

Replace 4.1.9 with the following:

4.1.9**feature attribute**

characteristic of a **feature**

[ISO 19101]

NOTE A feature attribute has a name, a data type and a value domain associated to it.

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Page 4, Clause 4

Replace 4.1.15 with the following:

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4.1.15**geometric primitive**

geometric object representing a single, connected, homogeneous element of space

[ISO 19107]

NOTE Geometric primitives are non-decomposed objects that present information about geometric configuration. They include points, curves, surfaces and solids.

Page 9, subclause 5.2.3.2

Replace 5.2.3.2 a) with the following:

- a) *position:TM_TemporalPosition* shall provide the position of this TM_Instant. The TM_TemporalPosition shall be associated with a single temporal reference system, as specified in 5.3. An instance of TM_Instant is an identifiable object, while an instance of TM_TemporalPosition is a data value. The TM_TemporalPosition of a given TM_Instant may be replaced by an equivalent TM_TemporalPosition associated with a different temporal reference system.

Page 10, subclause 5.2.3.5

Replace 5.2.3.5 b) with the following:

- b) If this `TM_Primitive` is a `TM_Period` and other is a `TM_Instant`, the operation shall return a value for `TM_RelativePosition` as follows:

Returns:	If:
Before	<code>self.end.position < other.position</code>
EndedBy	<code>self.end.position = other.position</code>
Contains	<code>self.begin.position < other.position AND self.end.position > other.position</code>
BegunBy	<code>self.begin.position = other.position</code>
After	<code>self.begin.position > other.position</code>

Page 11, subclause 5.2.3.5

Replace 5.2.3.5 d) with the following:

- d) If both this `TM_Primitive` and other are `TM_Periods`, the operation shall return a value for `TM_RelativePosition` as follows:

Returns:	If:
Before	<code>self.end.position < other.begin.position</code>
Meets	<code>self.end.position = other.begin.position</code>
Overlaps	<code>self.begin.position < other.begin.position AND self.end.position > other.begin.position AND self.end.position < other.end.position</code>
Begins	<code>self.begin.position = other.begin.position AND self.end.position < other.end.position</code>
BegunBy	<code>self.begin.position = other.begin.position AND self.end.position > other.end.position</code>
During	<code>self.begin.position > other.begin.position AND self.end.position < other.end.position</code>
Contains	<code>self.begin.position < other.begin.position AND self.end.position > other.end.position</code>
Equals	<code>self.begin.position = other.begin.position AND self.end.position = other.end.position</code>
OverlappedBy	<code>self.begin.position > other.begin.position AND self.begin.position < other.end.position AND self.end.position > other.end.position</code>
Ends	<code>self.begin.position > other.begin.position AND self.end.position = other.end.position</code>
EndedBy	<code>self.begin.position < other.begin.position AND self.end.position = other.end.position</code>
MetBy	<code>self.begin.position = other.end.position</code>
After	<code>self.begin.position > other.end.position</code>

The operation shall raise an exception if any input value of `TM_TemporalPosition` is indeterminate.

Page 12, subclause 5.2.3.7

Replace 5.2.3.7 e) with the following:

- e) `timeIndicator [0..1]:CharacterString = "T"` shall be included whenever the sequence includes values for units of less than a day.

ISO 19108:2002/Cor.1:2006(E)

Page 14, subclause 5.2.4.2

Replace 5.2.4.2 with the following:

A topological primitive represents a single non-decomposable element of topology and its relationships to other topological primitives within a topological complex. The two topological primitives relevant for temporal information are the node, which is 0-dimensional, and the edge, which is 1-dimensional. In the temporal schema, they are represented by two subclasses of TM_TopologicalPrimitive: TM_Node and TM_Edge (Figure 6). When an application includes information about temporal position as well as connectivity, a TM_TopologicalPrimitive may be associated with a TM_GeometricPrimitive of the same dimension. Because topological primitives are intended to provide information about connectivity, their most significant characteristics are the associations that link them to each other. Another consequence is the requirement that every TM_TopologicalPrimitive shall be a member of one and only one TM_TopologicalComplex.

Page 17, subclause 5.3.1

Replace 5.3.1 b) with the following:

- b) *domainOfValidity:EX_Extent* shall identify the space and time within which the TM_ReferenceSystem is applicable. The data type EX_Extent is specified in ISO/TS 19103. It permits a description of both spatial and temporal extent. This attribute shall be used whenever an application schema includes TM_TemporalPositions referenced to a TM_ReferenceSystem which has a valid extent that is less than the extent of a data set containing such values.

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Page 18, subclause 5.3.2.1

Replace Figure 8 with the following: <http://standards.iteh.ai/catalog/standards/sist/75d0120f-bf0d-4639-acff-86b8999c5f85/sist-en-iso-19108-2005-ac-2008>

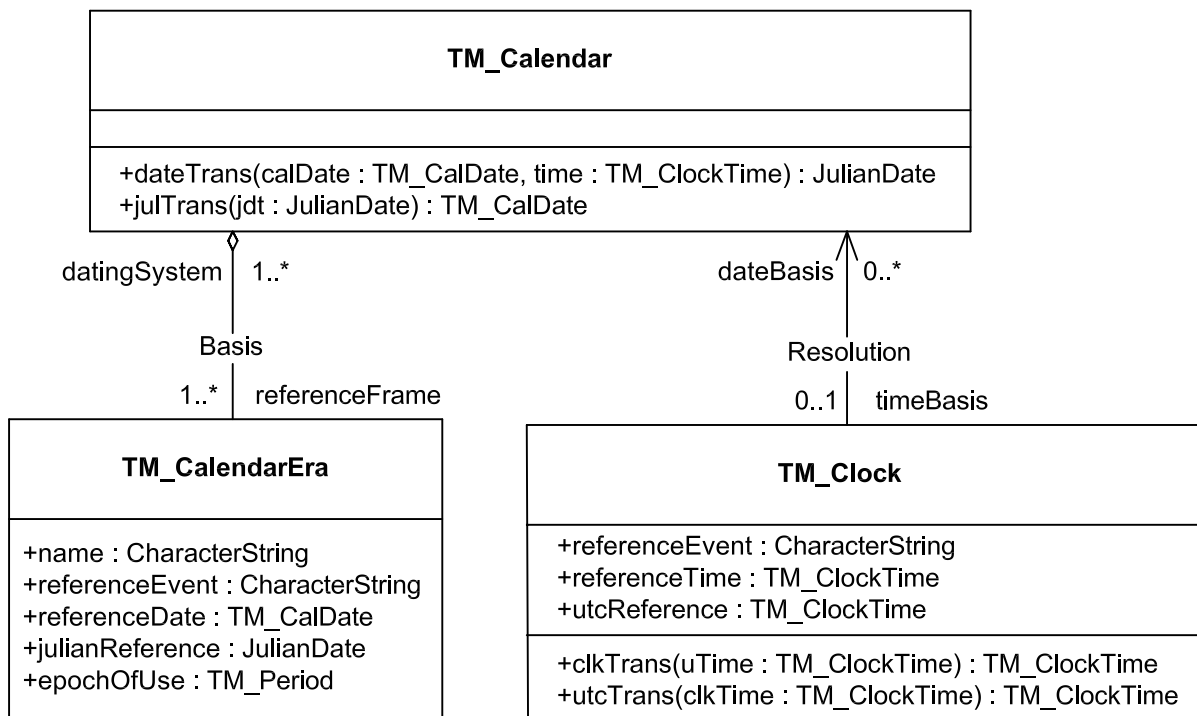


Figure 8 — Calendar and clock

Page 23, subclause 5.4.5.1

Replace 5.4.5.1 a) with the following:

- a) *coordinateValue:Number* holds the distance from the scale origin expressed as a multiple of the standard interval associated with the temporal coordinate system.

Page 33, subclause B.1.2

Replace the first paragraph with the following:

Figure B.2 illustrates an alternative way of using a *TM_GeometricPrimitive* for a temporal feature attribute. In this case, the feature attribute *periodOfOccupancy* is represented as a UML class that is linked to *Building* by a UML association. *PeriodOfOccupancy* is a subtype of *TM_Period*. It inherits the association roles *begin* and *end* from *TM_Period*, but it restricts the data type in each case to *DateTime*. (At the *TM_Period* level, the data type for these attributes is *TM_TemporalPosition*.) It also inherits the interfaces *TM_Order*, from which it uses the operation *relativePosition(other : TM_Primitive) : TM_RelativePosition*, and *TM_Separation*, from which it uses the operations *length() : TM_Duration* and *distance (other : TM_GeometricPrimitive) : TM_Duration*.

Page 38-40, Table C.1

Replace row 3 with the following:

3	domainOfValidity	Limits of space and time within which the temporal reference system is used	C/Extent of temporal reference system less than extent of data set in which it is used?	N	EX_Extent	ISO/TS 19103
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Replace row 8 with the following:

8	referenceFrame	The calendar eras associated with the calendar being described	M	N	Role name	TM_CalendarEra
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Replace row 9 with the following:

9	timeBasis	The clock that is used with this calendar to define temporal position within a calendar day	O	1	Role name	TM_Clock
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Replace row 18 with the following:

18	referenceTime	Time of the reference event for this clock	M	1	TM_ClockTime	Time in the clock being described
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Replace row 28 with the following:

28	component	Ordinal eras that make up the highest level of this ordinal reference system	M	1	Role name	TM_OrdinalEra
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