

**Title: Technical Corrections to S-100 5.2.0 Part 4a\_4c\_6\_7 and 8****S-100 Maintenance - Change Proposal Form**

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**Change Proposal Type** *Select only one option*

1. Clarification	2. Revision	3. New Edition
	<b>X</b>	

**Location** *Identify all change proposal locations*

S-100 Version No.	Part No.	Section No.	Proposal Summary
<b>5.2.0</b>	<b>4a</b>	<b>4a-5.4 、 4a-5.6</b>	<b>Reference correction.</b>
<b>5.2.0</b>	<b>6</b>	<b>Appendix 6-A 6-A-2</b>	<b>Reference correction.</b>
<b>5.2.0</b>	<b>6</b>	<b>Appendix 6-A 6-A-4</b>	<b>Code correction.</b>
<b>5.2.0</b>	<b>7</b>	<b>7-4.1</b>	<b>Reference correction.</b>
<b>5.2.0</b>	<b>7</b>	<b>7-4.2.1.1</b>	<b>Delete "three" before DirectPositions.</b>
<b>5.2.0</b>	<b>8</b>	<b>8-3.2 8-9</b>	<b>ISO 19130 title error</b>
<b>5.2.0</b>	<b>8</b>	<b>8-7.1 Figure 8-21</b>	<b>Figure name error.</b>

**Change Proposal (4a-5.4&4a-5.6)**

Both NOTE3 in Table 4a-1 of Section 5.4 and the constraint (g) in Table 4a-4 of Section 5.6 have the same content: "(The use of geographic bounding box is recommended - see Section 5.6.3)" in the end, in which "see Section 5.6.3" should be amended to "see Section 5.7.3".

**Change Proposal Justification**

This is a mistake when S-100 updates, 4a-5.6.3 in Edition 4.0.0 has been changed into 4a-5.7.3 in Edition 5.0.0, where the reference has not been adjusted. The Adjustments should be done in order to maintain the consistency of this document.

**Change Proposal (Appendix 6-A 6-A-2)**

The sentence: "This example is similar to A.2. It defines a projected CRS by referencing the EPSG Geodetic Parameter Data Set. "

Should be amended to: "This example is similar to A.1. It defines a projected CRS by referencing the EPSG Geodetic Parameter Data Set. "

**Change Proposal Justification**

Reference correction. "This example" is A.2 and is similar to A.1.

**Change Proposal (Appendix 6-A 6-A-4)**

Add ">" symbol at the end of the last line: "</SC\_CompoundCRS:example4".

**Change Proposal Justification**

Code correction.

**Change Proposal (7-4.1)**

"This profile consists of simple geometry which can be expressed in multiple configurations as described in ISO 19107:2003 clause 6.1.3. ", the clause 6.1.3 should be changed to clause 6.1 or Chapter 6.

**Change Proposal Justification**

Wrong reference clause. ISO 19107:2003 does not have Clause 6.1.3:

6	Geometry packages .....	22
6.1	Semantics .....	22
6.2	Geometry root package .....	24
6.2.1	Semantics .....	24
6.2.2	GM_Object .....	25
6.3	Geometric primitive package .....	32

It should refer to the content in clause 6.1 of Chapter 6 based on the context.

**Change Proposal (7-4.2.1.1)**

In section Circular arc by 3 points (circularArc3Points) , "The interpolation defined by a series of ~~three~~ DirectPositions on a circular arc passing from the start point through the middle point to the end point for each set of three consecutive controlPoints. " should delete "three" before DirectPositions.

**Change Proposal Justification**

As ISO 19107:2003 clause 6.4.8 defined, "circularArc3Points - for each set of three consecutive controlPoints, the middle one being an even offset from the beginning of the sequence of control points, the interpolation mechanism shall return DirectPositions on a circular arc passing from the first point through the middle point to the third point. The sequence of control points shall have an odd number of elements. Note: if the three points are co-linear, the circular arc becomes a straight line."

"three" is the number of controlPoints that defines the circular arc, not the number of DirectPositions.

**Change Proposal (8-3.2&8-9)**

"ISO 19130, Geographic information — **Sensor and data models for imagery and gridded data**" should be amended to "ISO 19130, Geographic information — Imagery sensor models for geopositioning ".

**Change Proposal Justification**

Adjust the title of ISO 19130:2010.

**Change Proposal (8-7.1 Figure 8-21)**

"Figure 8-21 - **S100\_IF\_Point**" should be changed to "Figure 8-21 - S100\_IF\_PointSet"

**Change Proposal Justification**

Follow the previous section: "The class S100\_PointSet is illustrated in Figure 8-21." Ensure the consistency of the context.

**Please send completed forms and supporting documentation to the IHO Secretariat (adtdt@iho.int).**