

E DIN EN ISO 19123-2:2025-11 (E)

Erscheinungsdatum: 2025-10-03

Geographic information - Schema for coverage geometry and functions - Part 2: Coverage implementation schema (ISO/DIS 19123-2:2025); English version prEN ISO 19123-2:2025

Contents		Page
	Foreword	v
	Introduction	vi
1	Scope	1
2	Normative references	1
3	Terms, definitions, and abbreviated terms	1
	3.1 Terms and definitions.....	1
	3.2 Abbreviated terms.....	2
4	Conformance	2
	4.1 Notation.....	2
	4.2 Interoperability and conformance testing.....	2
	4.3 Organization.....	3
5	Coverages	5
	5.1 Overview.....	5
	5.2 Terminology.....	6
	5.3 General coverage structure.....	9
	5.4 Domain/range based coverage structure.....	10
	5.5 Domain Set.....	12
	5.5.1 Coordinate Reference System.....	13
	5.5.2 Direct Positions.....	14
	5.5.3 Envelope.....	15
	5.6 Range type.....	17
	5.6.1 Overview.....	17
	5.6.2 Data description.....	17
	5.6.3 Interpolation.....	18
	5.7 Range Set.....	18
	5.8 Metadata.....	19
6	Multi-Point Coverage	19
7	General Grid Coverage	20
	7.1 Overview.....	20
	7.2 General grid.....	20
	7.3 Regular grid axis.....	25
	7.3.1 Overview.....	25
	7.3.2 Index Axis.....	27
	7.3.3 Regular Axis.....	27
	7.4 Irregular grid axis.....	28
	7.4.1 Overview.....	28
	7.4.2 Irregular independent grid axes.....	29
	7.4.3 Irregular correlated grid axes.....	31
	7.5 Transformation grid.....	32
	7.5.1 Transformation.....	32
	7.5.2 SensorML.....	33
	7.6 Number of direct positions in grid.....	35
8	Multi-Curve Coverage	35
9	Multi-Surface Coverage	36

10	Multi-Solid Coverage	37
11	Coverage partitioning	38
	11.1 Overview.....	38
	11.2 Partitioning.....	38
	11.3 CRS and partition envelope constraints.....	40
	11.4 Domain set constraints.....	41
	11.5 Range type constraints.....	42
12	Coverage encodings	42
	12.1 Overview.....	42
	12.2 XML.....	42
	12.2.1 Relation with GML.....	43
	12.3 JSON Coverage.....	43
	12.4 Multipart encoding.....	44
	12.4.1 Overview.....	44
	12.4.2 Root part.....	44
	12.4.3 Further parts.....	45
	Annex A (normative) Abstract test suite	46
	Annex B (normative) Rectified and Referenceable Grid Coverages	48
	Bibliography	55