

DIN EN ISO 19123:2007-06 (E)

Geographic information - Schema for coverage geometry and functions (ISO 19123:2005); English version EN ISO 19123:2007

Contents

	Page
Foreword.....	4
Introduction	5
1 Scope	6
2 Conformance.....	6
3 Normative references	7
4 Terms, definitions, abbreviated terms and notation	7
4.1 Terms and definitions	7
4.2 Abbreviated terms	12
4.3 Notation	12
5 Fundamental characteristics of coverages.....	12
5.1 The context for coverages	12
5.2 The coverage schema	14
5.3 CV_Coverage.....	15
5.4 CV_DomainObject.....	18
5.5 CV_AttributeValues	18
5.6 CV_CommonPointRule	19
5.7 CV_DiscreteCoverage	19
5.8 CV_GeometryValuePair.....	20
5.9 CV_ContinuousCoverage	21
5.10 CV_ValueObject	22
5.11 CV_InterpolationMethod	23
5.12 Subclasses of CV_ContinuousCoverage	23
6 Discrete coverages	23
6.1 Discrete coverage types	23
6.2 CV_DiscretePointCoverage	24
6.3 CV_PointValuePair.....	25
6.4 CV_DiscreteGridPointCoverage.....	25
6.5 CV_GridPointValuePair	26
6.6 CV_DiscreteCurveCoverage	26
6.7 CV_CurveValuePair	27
6.8 CV_DiscreteSurfaceCoverage.....	27
6.9 CV_SurfaceValuePair	29
6.10 CV_DiscreteSolidCoverage	29
6.11 CV_SolidValuePair.....	29
7 Thiessen polygon coverage	30
7.1 Thiessen polygon networks	30
7.2 CV_ThiessenPolygonCoverage.....	30
7.3 CV_ThiessenValuePolygon	32
8 Quadrilateral grid coverages	32
8.1 General.....	32
8.2 Quadrilateral grid geometry.....	32
8.3 CV_Grid.....	35
8.4 CV_GridEnvelope.....	36
8.5 CV_GridPoint.....	37
8.6 CV_GridCoordinate	37
8.7 CV_GridCell	37

8.8	CV_Footprint.....	38
8.9	CV_RectifiedGrid.....	39
8.10	CV_ReferenceableGrid.....	39
8.11	CV_ContinousQuadrilateralGridCoverage.....	40
8.12	CV_GridValueCell.....	42
8.13	CV_GridPointValuePair.....	42
8.14	CV_GridValuesMatrix.....	42
8.15	CV_SequenceRule.....	43
8.16	CV_SequenceType.....	44
9	Hexagonal Grid Coverages.....	44
9.1	General.....	44
9.2	CV_HexagonalGridCoverage.....	45
9.3	CV_GridValuesMatrix.....	47
9.4	CV_ValueHexagon.....	47
10	Triangulated irregular network (TIN) coverages.....	47
10.1	General.....	47
10.2	CV_TINCoverage.....	49
10.3	CV_ValueTriangle.....	49
11	Segmented curve coverages.....	50
11.1	General.....	50
11.2	CV_SegmentedCurveCoverage.....	51
11.3	CV_ValueCurve.....	51
11.4	CV_ValueSegment.....	52
11.5	Evaluation.....	52
Annex A (normative) Abstract test suite.....		53
Annex B (informative) UML Notation.....		57
Annex C (informative) Interpolation methods.....		62
Annex D (informative) Sequential enumeration.....		66
Bibliography.....		71