

DIN EN ISO 19115-3:2024-01 (E)

Geographic information - Metadata - Part 3: XML schema implementation for fundamental concepts (ISO 19115-3:2023); English version EN ISO 19115-3:2023

Contents

	Page
Foreword	v
Introduction	vii
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 Conventions	3
4.1 Availability of ISO/TC 211 resources	3
4.1.1 Maintenance agency for ISO/TC 211 resources	3
4.1.2 Resources provided by this document	3
4.2 Presentation of ISO/TC 211 resources	3
4.2.1 General	3
4.2.2 Provision classes and provisions	3
4.2.3 Conformance classes and conformance tests	4
4.3 Structure of URIs in ISO/TC 211 resources for implementation	5
4.3.1 General	5
4.3.2 Identified resources	5
4.3.3 Basic elements used in URI templates	5
4.3.4 XML schema namespace and location	5
4.3.5 Normative statements	6
4.3.6 Conformance classes and tests	7
4.4 Presentation of information resources in this document	7
4.4.1 General	7
4.4.2 Relations between information resources	7
4.4.3 Location of information resources	9
5 XML schemas	10
5.1 General	10
5.2 XML schemas belonging to the ISO 19115 series	11
5.3 XML schemas outside of the ISO 19115 series	17
5.4 XML schemas required for a minimum metadata interchange XML document	19
6 Requirements of ISO 19115-1:2014 and ISO 19115-2:2019	20
6.1 General	20
6.2 Metadata modules	20
7 Requirements for metadata interchange documents	26
8 Requirements for defined XML encodings	30
8.1 General	30
8.1.1 Approach	30
8.1.2 Grouping of requirements in XML	30
8.1.3 Executable test suite	31
8.2 Requirements not validated by this document	31
8.3 Using and extending XML resources	31
8.4 Requirements for XML validity	31
8.5 Requirements for metadata modules in XML	32

8.5.1	General	32
8.5.2	Derived from ISO 19115-1.....	32
8.5.3	Derived from ISO 19115-2.....	52
8.5.4	Derived from standards outside of the ISO 19115 series.....	52
8.6	Requirements for extended metadata records.....	53
9	Requirements dependency diagrams.....	55
10	Design goals and implementation.....	55
10.1	Introduction to design goals and decisions.....	55
10.2	Automated generation of XML schema	56
10.3	Multilingual adaptability and polymorphism	56
10.4	Core decisions	56
10.5	Extensions to the UML models in the ISO geographic information series of International Standards for this schema	57
10.6	UML packages and XML namespaces	57
10.7	UML model for XML implementation.....	57
10.8	Implementation approach for decoupling XML packages.....	57
10.8.1	General	57
10.8.2	Implementation approach to decouple optional classes.....	59
10.9	XML encoding rules.....	61
10.10	Default values	62
Annex A (normative) Conformance test suite.....	63	
Annex B (informative) Supporting XML resources.....	94	
Annex C (informative) Encoding descriptions	96	
Annex D (informative) Implementation examples.....	98	
Bibliography.....	99	