

ISO/TS 19115-3:2016-08 (E)

Geographic information - Metadata - Part 3: XML schema implementation for fundamental concepts

Contents	Page
Foreword	iv
Introduction	v
1 Scope	1
2 Conformance	1
2.1 General	1
2.2 Conformance classes for metadata modules	2
2.3 Conformance classes for metadata interchange documents	3
3 Normative references	3
4 Terms and definitions	3
5 Symbols and abbreviated terms	4
5.1 Acronyms	4
5.2 Namespaces	5
6 Requirements	8
6.1 Automated generation of XML schema	8
6.2 Multilingual adaptability and polymorphism	8
6.3 Introduction to requirements classes	8
6.4 Core Requirements	9
6.5 Requirements for metadata modules	9
6.6 Requirements for metadata interchange documents	18
6.7 Requirements dependency diagrams	24
7 Extensions to the UML models in the ISO geographic information series of International Standards for this schema	25
8 Encoding approach and rules	26
8.1 UML packages and XML namespaces	26
8.2 UML model for XML implementation	26
8.3 Implementation approach for decoupling XML packages	26
8.3.1 General	26
8.3.2 Implementation approach to decouple optional classes	29
8.4 XML encoding rules	31
8.5 Default values	32
Annex A (normative) Abstract test suite	33
Annex B (informative) Geographic metadata XML resources	47
Annex C (informative) Encoding descriptions	49
Annex D (informative) Implementation examples	51
Bibliography	64