

ISO 19119:2005-02 (E)

Geographic information - Services

Contents		Page
Foreword		iv
Introduction		v
1	Scope	1
2	Conformance	1
3	Normative references	1
4	Terms and definitions	2
5	Abbreviated terms	3
6	Overview of geographic services architecture	4
6.1	Purpose and justification	4
6.2	Interoperability reference model based on ISO RM-ODP	5
6.3	Service abstraction	6
6.4	Interoperability	7
6.5	Use of other geographic information standards in service specifications	8
6.6	Architecture patterns	8
7	Computational viewpoint: a basis for service chaining	9
7.1	Component and service interoperability and the computational viewpoint	9
7.2	Services, interfaces and operations	9
7.3	Service chaining	11
7.4	Service metadata	19
7.5	Service instance of unknown type	21
7.6	Simple service architecture	22
8	Information viewpoint: a basis for semantic interoperability	23
8.1	Information model interoperability and the information viewpoint	23
8.2	Extended open systems environment for geographic services	23
8.3	Geographic services taxonomy	24
8.5	Geographic service chaining validity	32
8.6	Services organizer folder (SOF)	33
9	Engineering viewpoint -- A basis for distribution	34
9.1	Distribution transparencies and the engineering viewpoint	34
9.2	Distributing components using a multi-tier architecture model	35
10	Technology viewpoint -- A basis for cross platform interoperability	39
10.1	Infrastructure interoperability and the technology viewpoint	39
10.2	Need for multiple platform-specific specifications	40
10.3	Conformance between platform-neutral and platform-specific service specifications	40
10.4	From platform-neutral to platform-specific specifications	41
Annex A (normative) Conformance		42
Annex B (informative) Example user scenarios		46
Annex C (normative) Data dictionary for geographic service metadata		49
Annex D (informative) Mapping to distributed computing platforms		54
Bibliography		66