

Durchführungsbestimmung Metadaten

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Inhalt

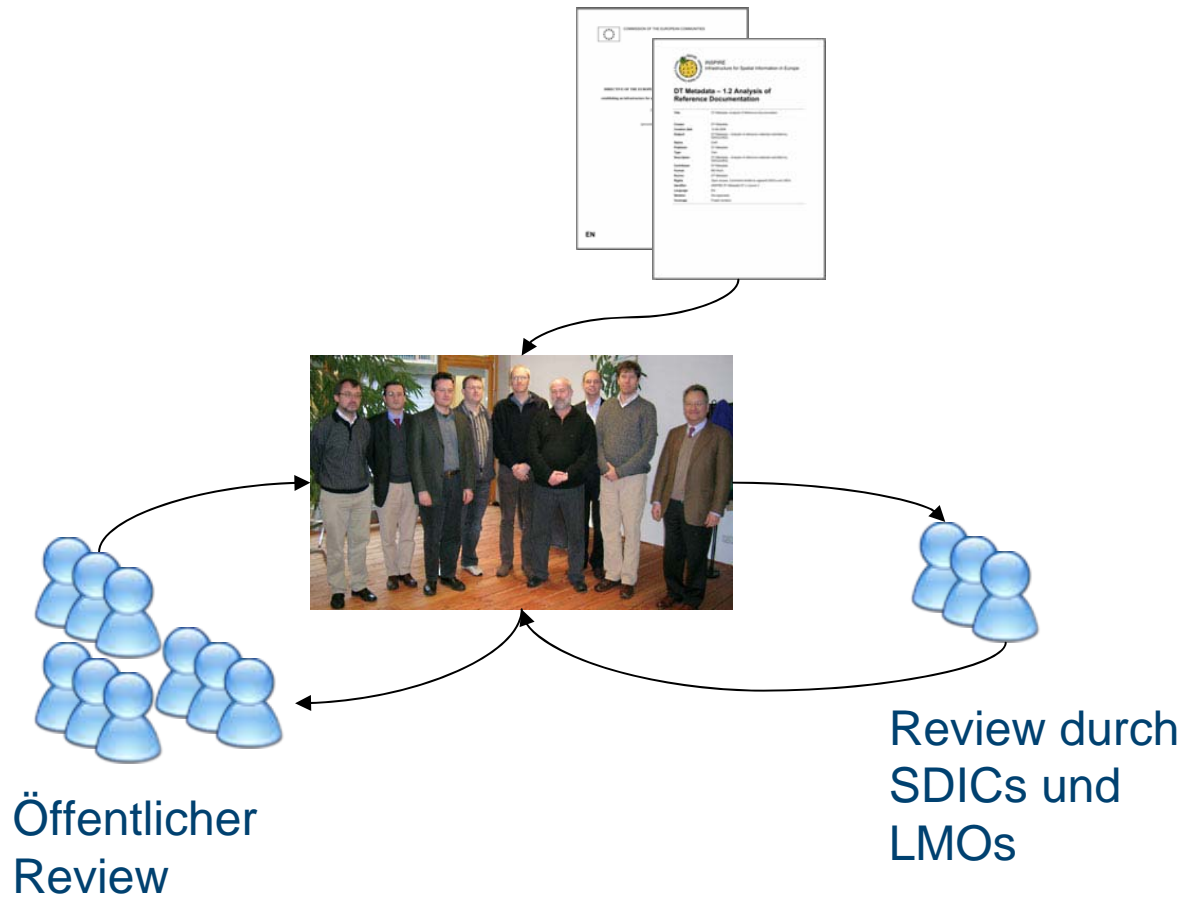
- ➔ **Wer hat die Durchführungsbestimmungen für Metadaten spezifiziert?**
- ➔ **Wie wurden die Durchführungsbestimmungen für Metadaten spezifiziert?**
- ➔ **Wie sind die Durchführungsbestimmungen für Metadaten aufgebaut?**
- ➔ **Wie sind die Durchführungsbestimmungen für Metadaten zu lesen?**

Übersicht – Drafting Team Mitglieder

Name	Expertise	Land
Marcel Reuvers	DT-Chair, link with CEN/TC287	NL
Frank Daffner	EEA/EIONET Environment metadata	DE
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Michael Gould	SDI implementation, Co-Chair	ES
Nicolas Lesage	standards/mapping	FR
Stefano Nativi	Link with GMES+ Grid	IT
Gil Ross	Weather data	UK
Fred Kruse	Expert Environmental data	DE
Per Ryghaud	Geology	NO
Jan Hjelmager	Expert Cadastre	DK
David Danko	International implementation	US
Therese Libourel	Data modeling, link to Data specifications	FR



Methodik



Beratung/Abstimmung

JRC

Drafting Teams

Consolidation Team

SDICs

LMOs

Other Experts

Ergebnis – Dokumente

➔ 4 zentrale Dokumente

Implementing Rules for Metadata

Binding guidelines – INSPIRE metadata implementing rules based on ISO 19115 and ISO 19119

Binding guidelines of ISO 15836 and Dublin Core Metadata Terms and the elements of the INSPIRE metadata implementing rules

Abstract Conformance Test



Ergebnis – Status der Dokumente

➔ Implementing Rules for Metadata

Rechtlich verbindlich, sagt **was** getan werden muss.

➔ Binding guidelines

Kürzere Lebenszeit, um technologischen Neuerungen Rechnung tragen zu können.

Sagt, **wie** etwas getan werden muss.



DB für Metadaten - Struktur

➔ Vorgaben durch INSPIRE Direktive (2007/2/EC)

Art. 3 (6)

Art. 4-1

Art. 5

Art. 8-2 (c)

Art. 11-1 (a) und 11-2

➔ INSPIRE Metadata Elements

Abstrakte semantische Beschreibung der Elemente

Unabhängig von konkreten Informationsmodellen



DB für Metadaten - Struktur

➔ Value Domains

B.1 Resource type

B.2 Topic categories (mapping to INSPIRE Themes)

B.3 Spatial data service type (INSPIRE)

B.4 Classification of spatial data services (ISO 19119)

B.5 Degree of conformity

B.6 Responsible party role



DB für Metadaten - Metadatenelemente

➔ Identification

Resource title

Resource abstract

Resource type

Resource locator

Unique resource identifier

Coupled resource

Resource language

➔ Classification of spatial data and services

Topic category

Spatial data service type



DB für Metadaten - Metadatenelemente

➔ Keyword

Keyword value

Originating controlled vocabulary

➔ Geographic location

Geographic bounding box

➔ Temporal reference

Temporal extent

Date of publication

Date of last revision

Date of creation



DB für Metadaten - Metadatenelemente

➔ Quality and validity

Lineage

Spatial resolution

➔ Conformity

Specification

Degree

➔ Constraint related to access and use

Conditions applying to access and use

Limitations on public access



DB für Metadaten - Metadatenelemente

➔ Organisations responsible for the establishment, management, maintenance and distribution of spatial data sets and services

Responsible party

Responsible party role

➔ Metadata on metadata

Metadata point of contact

Metadata date

Metadata language



ISO Binding Guidelines

➔ **Legen fest, wie die im IR definierten Metadatenelemente mit ISO TC/211 Standards umgesetzt werden.**



➔ **Normative Standards der ISO 19000 Reihe sind (u.a.):**

EN ISO 19115:2005, Geographic information - Metadata

ISO 19119:2005, Geographic information - Services

ISO 19119:2005/FDAmD 1, Extensions of the service metadata model

EN ISO 19108:2005, Geographic information –
Temporal Schema

ISO Binding Guidelines

➔ ISO Encoding für 19115 basiert auf

ISO/TS 19139:2007, Geographic information - Metadata – XML Schema Implementation



➔ ISO Encoding für 19119 basiert auf

CSW2 AP ISO, OpenGIS Catalogue Services Specification 2.0.2 - ISO Metadata Application Profile, Version 1.0.0, OGC 07-045, 2007

ISO Binding Guidelines

➔ ISO Core Metadata Elements

Beziehung der INSPIRE Elemente zu Elementen des ISO Core



➔ INSPIRE specific constraints, z.B.

- ➔ MD_Metadata.language is mandatory;
- ➔ MD_Metadata.hierarchyLevel is mandatory;
- ➔ INSPIRE only considers the first instance of MD_Metadata.hierarchyLevel (i.e. MD_Metadata.hierarchyLevel[1]) when there are many;
- ➔ ...

ISO Binding Guidelines

➔ Extensions

Value Domain für *Spatial Data Service Type*
Classification of Spatial Data Services

➔ Basic Mappings

Mapping zwischen INSPIRE Metadatenelementen und ISO
19115/19119

➔ Detailed Mappings

Template Instanzen für ISO 19115 und ISO 19119 Klassen.

➔ Annex A

ISO/TS 19139 encoding of the INSPIRE metadata elements
XML examples



Mapping-Beispiel: Conformity

Specification

This is a citation of the specification to which the resource is expected to conform.

This citation shall include at least the title and a reference date (date of publication, date of last revision or of creation) of the specification.

Degree

This is the degree of conformity of the resource to the related specification.

The value domain of this metadata element is defined in Annex B.5.

.....

B.5 Degree of conformity

1.	Conformant The resource is fully conformant with the cited specification
2.	Not Conformant The resource does not conform with the cited specification
3.	Not evaluated Conformance has not been evaluated



Mapping-Beispiel: Conformity

Specification



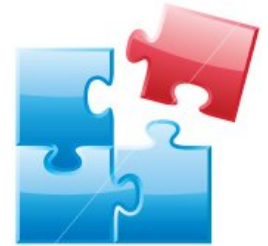
IR	Reference	2.2.7.1
	Element name	Specification
	Obligation/Condition	Mandatory
	Multiplicity	[1] understood in the context of a conformity statement when reported in the metadata – there may be more than one conformity statement.
ISO 19115	Number	130
	Name	specification
	Definition	citation of the product specification or user requirement against which data is being evaluated.
	XPath	dataQualityInfo/*/report/*/result/*/specification
	Data type	CI_Citation
	Domain	<p>The following properties are expected:</p> <ul style="list-style-type: none"> • title of type CharacterString (Free text); • reference date defined as: <ul style="list-style-type: none"> ○ a date type : creation, revision or publication; ○ an effective date.
	Example	<ul style="list-style-type: none"> • title: "INSPIRE Implementing rules laying down technical arrangements for the interoperability and harmonisation of administrative boundaries". • date: <ul style="list-style-type: none"> ○ dateType: publication ○ date: 2009-05-15
Implementing instructions	None	

Mapping-Beispiel: Conformity



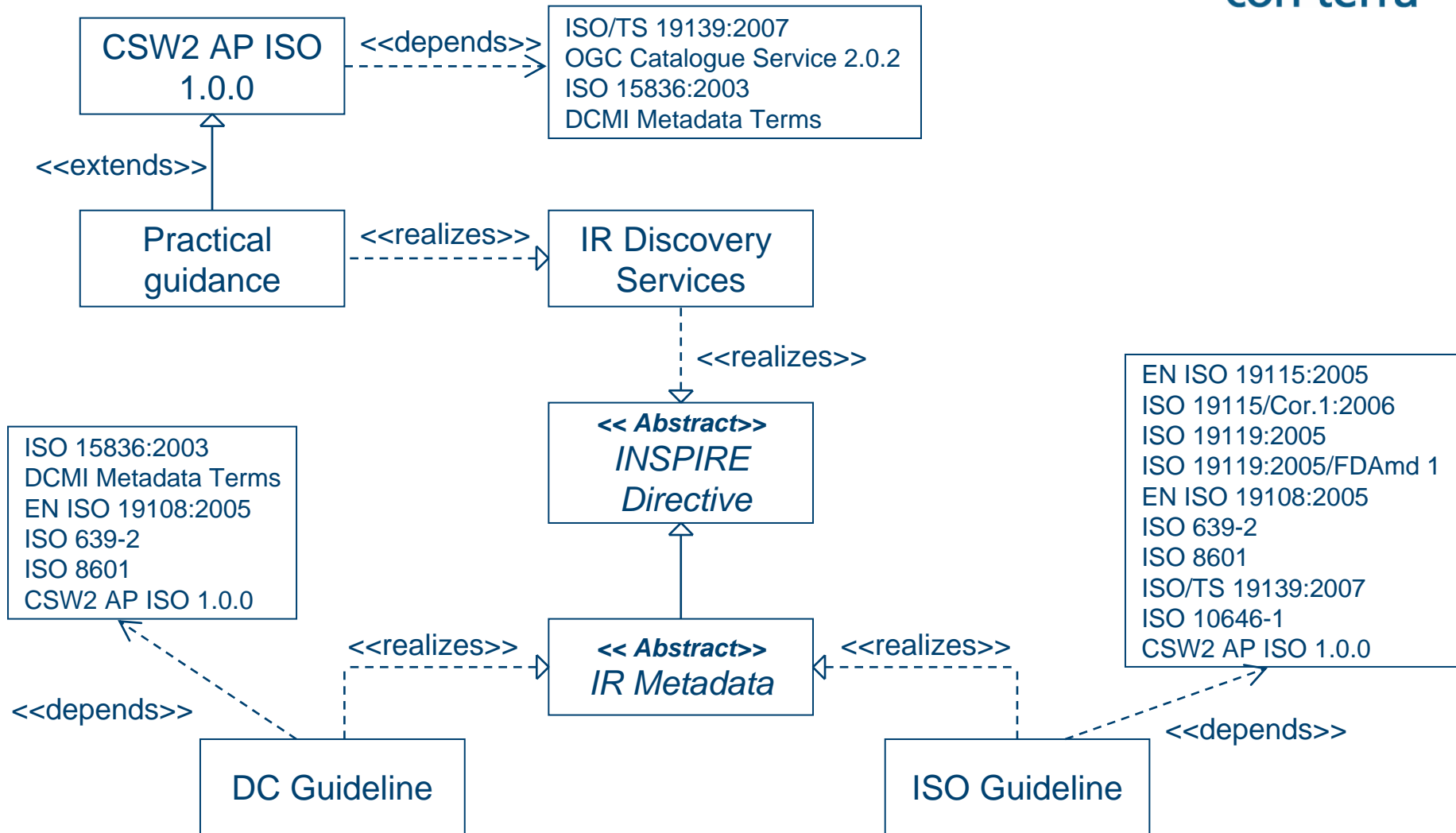
Degree

IR	Reference	2.2.7.2
	Element name	Degree
	Obligation/Condition	Mandatory
	Multiplicity	[1] understood in the context of a conformity statement when reported in the metadata – there may be more than one conformity statement.
ISO 19115	Number	132
	Name	Pass
	Definition	indication of the conformance result
	XPath	dataQualityInfo/*/report/*/result/*/pass
	Data type	Boolean
	Domain	<ul style="list-style-type: none"> • TRUE if conformant • FALSE if not conformant
	Example	True
Implementing instructions		The first two degrees of conformity defined in B.4 of the INSPIRE Implementing rules for metadata map to two values of the Boolean domain of ISO 19115. The last value corresponds to the case where no conformance statement is expressed in the metadata for the related specification.



Verknüpfung mit DT Network Services

- ➔ **Metadatendokumente müssen mit Hilfe von Katalogdienste gesucht werden können.**
- ➔ **Die Schnittstelle der INSPIRE Discovery Services muss die INSPIRE Metadatenelemente unterstützen.**
- ➔ **IR Discovery Services legt folgende Spezifikation für INSPIRE Discovery Services fest:**
 - OpenGIS® Catalogue Services Specification 2.0.2 - ISO Metadata Application Profile
- ➔ **Notwendige Erweiterungen**
 - Zusätzliche Suchattribute werden definiert (→ IR Metadata)
 - Vorschrift für die Capabilities Dokumente der Kataloginstanzen wird erstellt.



**Vielen Dank für ihre
Aufmerksamkeit.**

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