ISO GEOSPATIAL METADATA STANDARD PUBLICATIONS

<u>Day One</u> ISO Geospatial Metadata Standards Overview

Tuesday April 16, 2013 12:00-4:00 PM

April 16, 2013

ISO Metadata Implementation Webinar Day One: Standards Overview

INTERNATIONAL STANDARD

First edition 2003-05-01

ISO 19115

Geographic information - Metadata

Information géographique - Métadonnées

Adopted by INCITS (InterNational Committee for Information Technology Standards) as an American National Standard.

Date of ANSI Approval: 12/24/2003

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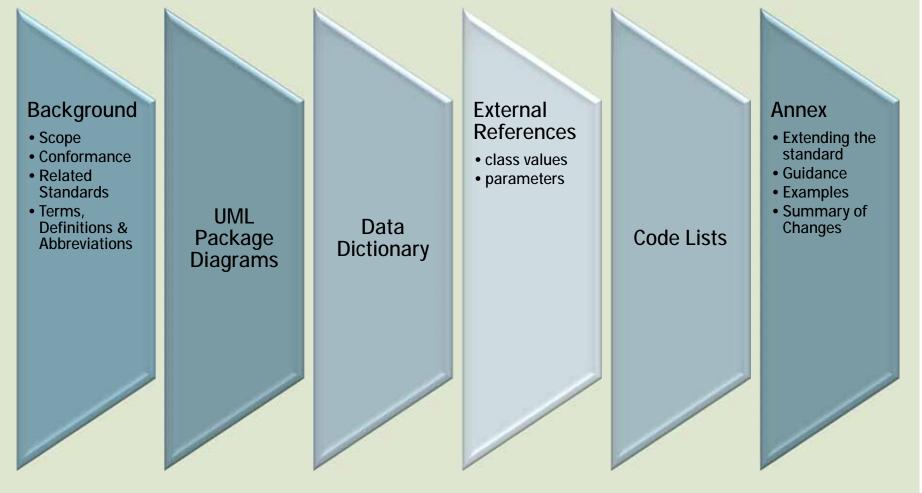
- Available as DIS and IS
- Corrigendum and amendments are free
- Standards must be purchased
 - ANSI is US Publisher
- Agency Purchase
 - Check with agency library
 - Initiate agency purchase
- Free resources from NOAA
 - Transforms
 - 19115/-2 Workbook

0 ISO 2003

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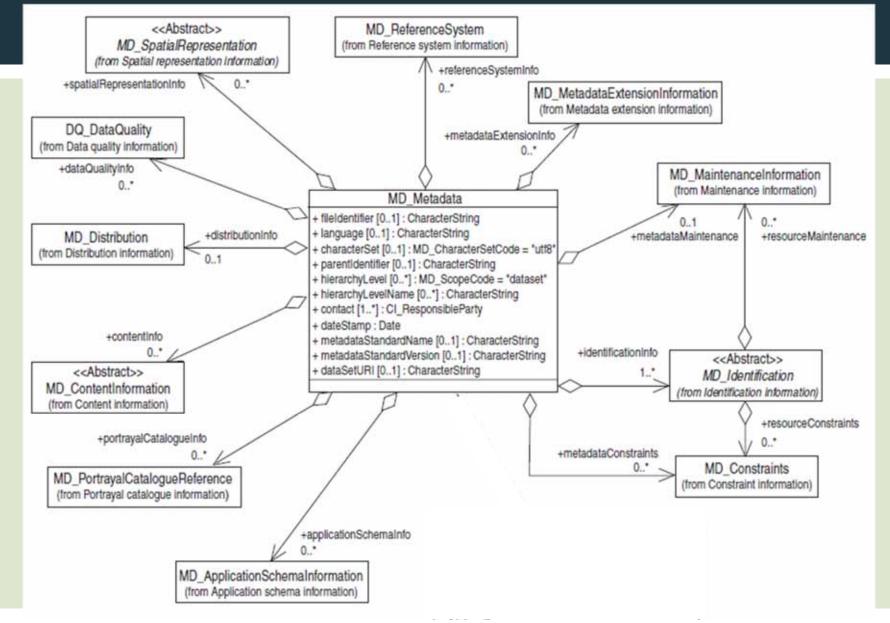
DOCUMENT PARTS AND PIECES



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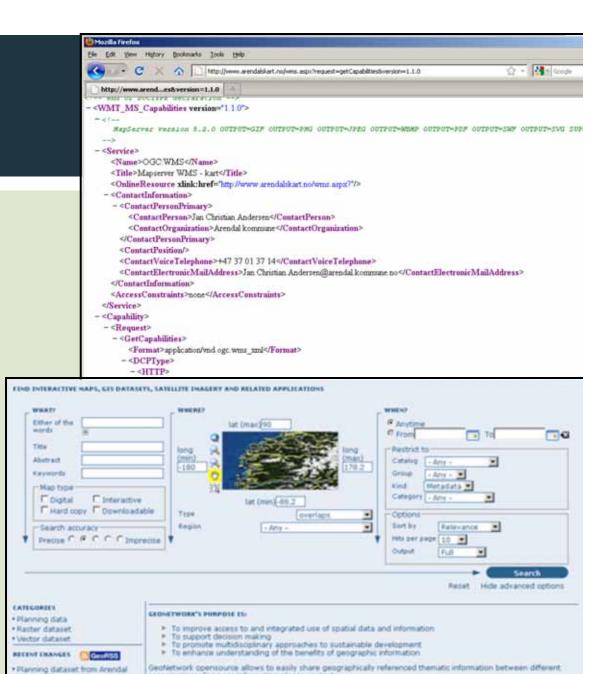
UML CLASS DIAGRAMS



UML CLASS DIAGRAMS

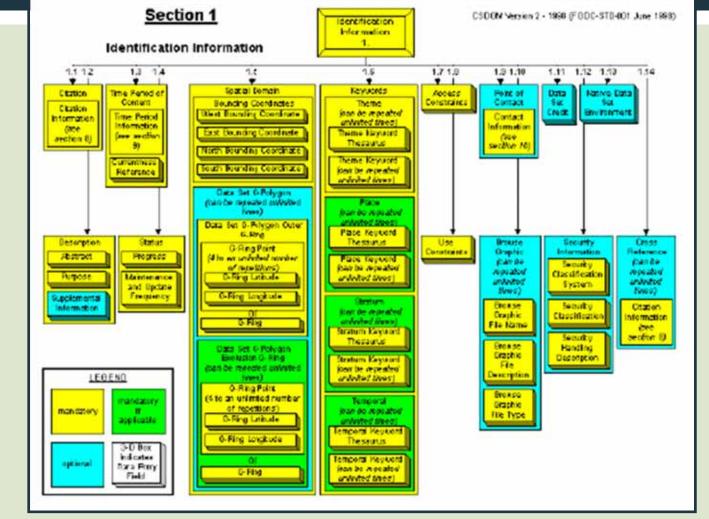
DON'T PANIC

- Most users will not use the UML diagrams
- Most will interact with the standard via:
 - Form based editor
 - Properly formatted XML



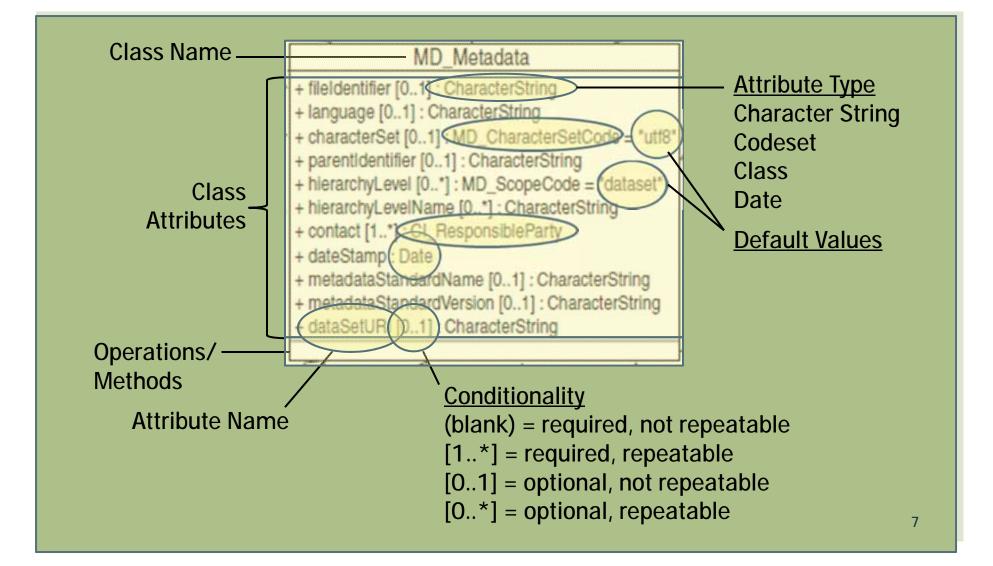
UML CLASS DIAGRAMS

Remember the first time you saw this?

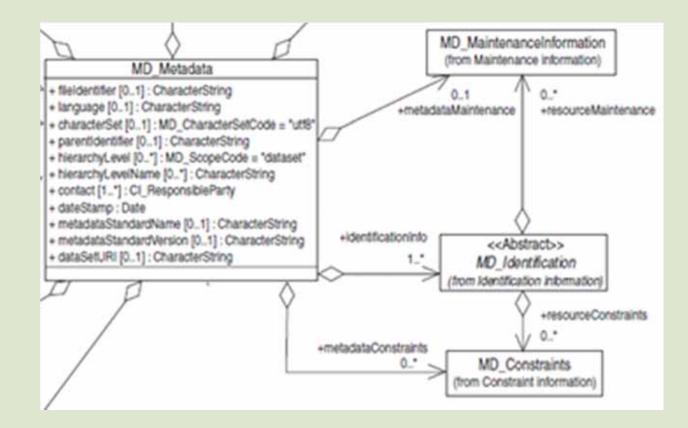


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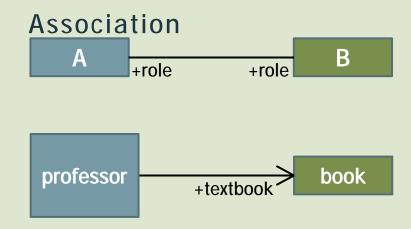
CLASS DESCRIPTION



CLASS ASSOCIATIONS



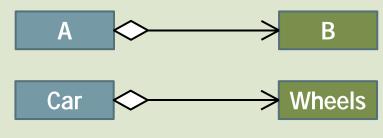
CLASS ASSOCIATIONS



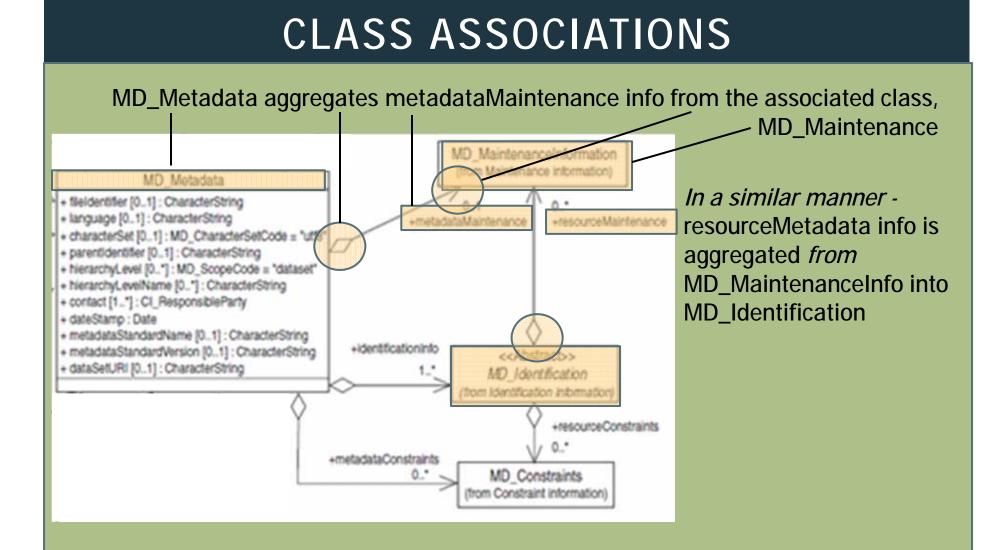
Class A is associated with Class B as defined by the role. Can be bidirectional, as shown, or unidirectional as in the example below.

Example: A professor can assign a textbook, but the book knows nothing about the professor

Aggregation

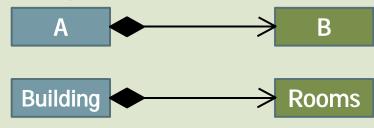


Class A contains an occurrence of Class B but does not own it exclusively <u>Example</u>: Cars must have wheels but wheels are not only found on cars



CLASS ASSOCIATION TYPES

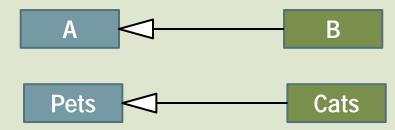
Composition



Class A owns Class B exclusively. B cannot exist without A.

Example: A building is comprised of rooms but if the building is destroyed the room are also destroyed.

Generalization



Class A is the general class and Class B is a specific instance of Class A. <u>Example</u>: Cats are a type of pet.

DATA DICTIONARY

	5	Short	Nar	ne Co	nditional	ity D	Data Type	е
	Name			Definition		Max#		Domain
	Name / Role name	Short	Name	Definition	Obligation / Condition	Maximum occurrence	Data type	Domain
1	MD_Metadata			root entity which defines metadata about a resource or resources	м	1	Class	Lines 2-22
2	fileldentifier	mdFileID		unique identifier for this metadata file	0	1	CharacterString	Free text
3	language	mdLang		language used for documenting metadata	C / not defined by encoding?	1	CharacterString	ISO 639-2, other parts may be used
4	characterSet	acterSet mdChar		full name of the character coding standard used for the metadata set	C / ISO/IEC 10646-1 not used and not defined by encoding?	1	Class	MD_CharacterSetCode < <codelist>> (B.5.10)</codelist>
5	parentidentifier	mdParentID		file identifier of the metadata to which this metadata is a subset (child)	C / hierarchyLevel is not equal to "dataset"?	1	CharacterString	Free text
19	Role name: portrayalCatalogueInfo	porCatin	0	provides information about the catalogue of rules defined for the portrayal of a resource(s)	0	N	Association	MD_PortrayalCatalogue Reference (B.2.9)
20	Role name: metadataConstraints	mdConst		provides restrictions on the access and use of metadata	0	N	Association	MD_Constraints (B.2.3)
21	Role name: applicationSchemaInfo	appSchin	nfo	provides information about the conceptual schema of a dataset	0	N	Association	MD_ApplicationSchema Information (B.2.12)
22	Role name: metadataMaintenance	mdMaint		provides information about the frequency of metadata updates, and the scope of those updates	0	1	Association	MD_MaintenanceInformation (B.2.5)
	-1			Day One: S	tandards Overview	++		12

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22	Role name: metadataMaintenance	mdMaint	provides information about the frequency of metadata updates,	0	1	Association	MD_MaintenanceInformation (B.2.5)	

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and the scope of those updates

CODE LISTS

B.5.3 CI_OnLineFunctionCode <<CodeList>>

	Name	Domain code	Definition
1.	CI_OnLineFunctionCode	OnFunctCd	function performed by the resource
2.	download	001	online instructions for transferring data from one storage device or system to another
3.	information	002	online information about the resource
4.	offlineAccess	003	online instructions for requesting the resource from the provider
5.	order	004	online order process for obtaining the resource
6.	search	005	online search interface for seeking out information about the resource

Use 'CamelCase' values that are concatonatedWithEachNewWordCapitalized

QUESTIONS?

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