

North American Profile for Geospatial Metadata status report

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What is a profile?

ISO 19106 - Standardized Profiles

"...set of one or more base standards or **sub-sets** of base standards...that are necessary for accomplishing a particular function."

Conformance to profile = conformance with base standard(s)
(Conformance Level 1, Strict Conformance)

- Registered Profiles
 - Internationally Registered (ISP)
 - Nationally Registered
- Published Profiles
 - Formally within Community
 - Informally within Organization

Profile

A standard tailored for a “Community”

Standard

Broad/complex

Generic

Optional

Undefined domains



Profile

Narrow focus/often simpler

Specific

Mandatory

Explicit Domains – codelists

Easier implementation

Regional, national, & organizational profiles

Communities with a common need for metadata

ISO19115:2003 Geographic Information - Metadata

State Profile

ANZLIC Profile

NATO Profile

EO Profile

Navigation Profile

European Profile

North American Profile

Perfil Latinoamericano de Metadata

Profiles Enable Interoperability Between Communities

The situation today

- *Directory Information Describing Digital Geo-referenced Data Sets*, Canadian General Standards Board, July 1994, Ottawa.
- *Content Standard for Digital Geospatial Metadata*, Federal Geographic Data Committee, June 8, 1994, Washington DC.

The goal

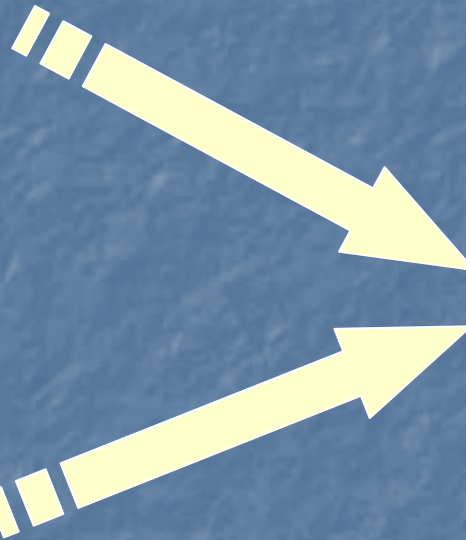
CAN/CGSB 171.3-95

USA CSDGM

**North American
Profile**

**Geospatial
Metadata**


Based on ISO
19115/19139





Co-located Meetings Parallel Development




American National Standards Institute

North
American
Profile of
ISO 19115
Metadata

— MOU between —
Canada and
the USA


Standards Council of Canada
Conseil canadien des normes

North
American
Profile of
ISO 19115
Metadata

Participants

Canada

- Natural Resources Canada
- Ontario Ministry of Natural Resources
- CGSB-CoG
 - members

USA

- Federal Geographic Data Committee
 - NPS, USGS (BRD, Geography, Geology), NJ, BLM, Nature Serve, NOAA
- INCITS-L1
 - members

NAP Metadata
Working Group

Potential Mexican
involvement

Meetings & Schedule

- Sherbrooke, QC – Sept 2005
- Columbus, OH – Dec 2005
- Vienna, VA – March 2006
- Denver, CO – Sept 2006
- Future meetings...

Initial draft document – Sept 2006

Submit to standards bodies – Dec 2006?

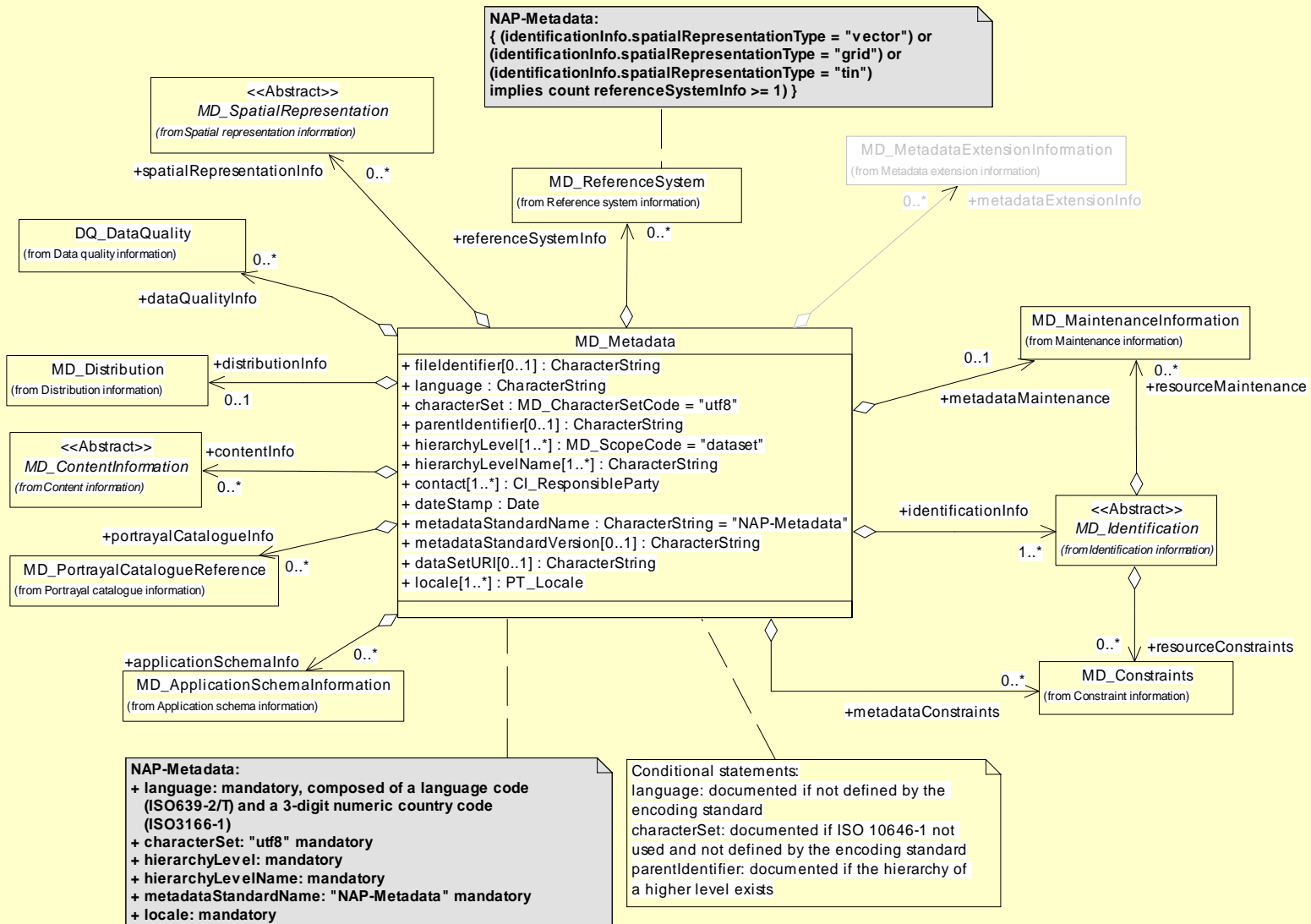
Approach

- Requirements analysis
 - Past experience with metadata standards implementation
- Cross-table development (FGDC-ISO 19115)
- Modified UML
 - Promote options to obligations
 - Extended codelists
 - Added codelists

Crosswalk

| <u>FGDC name</u> | <u>ISO name</u> | <u>Comment</u> |
|---|--|--|
| Identification Information (Section 1) | MD_Metadata.identificationInfo.MD_Identification | |
| 1.1 Citation | MD_Metadata.identificationInfo.MD_Identification.citation | |
| 1.2 Description | --- | Compound element, unnecessary mapping |
| 1.2.1 Abstract | MD_Metadata.identificationInfo.MD_Identification.abstract | |
| 1.2.2 Purpose | MD_Metadata.identificationInfo.MD_Identification.purpose | |
| 1.2.3 Supplemental Information | MD_Metadata.identificationInfo.MD_DataIdentification.supplementalInformation | |
| 4.1 Horizontal Coordinate System Definition | --- | Compound element, no mapping necessary |
| 4.1.1 Geographic | MD_Metadata.referenceSystemInfo.MD_ReferenceSystem.referenceSystemIdentifier.RS_Identifier.code (= FGDC Geographic) | |
| 4.1.1.1 Latitude Resolution | NO MATCH | |
| 4.1.1.2 Longitude Resolution | NO MATCH | |
| 4.1.1.3 Geographic Coordinate Units | NO MATCH | |
| 4.1.2 Planar | --- | Compound element, no mapping necessary |
| 6.4.2.2.1.1.2 Dialup Instructions | Deprecate | |
| 6.5 Custom Order Process | | |
| 7.7 Metadata Time Convention | Deprecate | |
| 10.4.1 Address Type | Deprecate | |

Modified UML



ISO 19139 Validation

NAP Validator

<http://www.isotc211.org/2005/>

**Afternoon
NAP.xml**

Recommended
Core
Metadata

**Lake
Okeechobee
SoundingsNAP
.xml**

only 12 mandatory
metadata elements

**Lake
Okeechobee
Environmental
Impact data-
NAP.xml**

Full comprehensive
metadata comprised
of over 300 metadata
elements



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