

IMT Standards IMT Standards Oversight Committee Government of Alberta	Effective Date: 2015-10-30 Scheduled Review: 2016-10-30 Last Reviewed: 2015-10-30
	Type: Process Standard
Standard number: A000062	
Metadata - Geospatial Standard (GeoDiscover Alberta)	
Category: Spatial Keywords: Location Standards, Web Mapping, Database Standards, Web Map Service	

Description of Standard

The Geospatial Metadata Standard is applicable to objects that have an explicit geographic extent. Such objects may be stored in geographic information systems (GIS) or may be documents, datasets, images or other objects, services, or related items that exist in some other environment.

Standard Specification

The ISO 19115 North American Profile, currently used internationally for the collection, management and dissemination of geospatial metadata, is the recognized standard.

The “mandatory” and “mandatory if applicable” metadata elements have been identified by the Government of Alberta GeoDiscover Program Office after consultation with designated GOA geospatial subject matter experts. The recommendations of this group are based on the ISO 19115 North American Profile mandatory elements used by the Government of Canada and the other Canadian provinces.

Section	Package	Obligation	Tag	Obligation	CORMAP Equivalent
Metadata Entity Set Information	MD_Metadata	M	fileIdentifier	M	Identifier (other)
			language	M	Language
			characterSet	M	
			hierarchyLevel	M	
			hierarchyLevelName	M	
			contact	M	
			dateStamp	M	Date Modified

Section	Package	Obligation	Tag	Obligation	CORMAP Equivalent
			metadataStandardName	M	
			metadataStandardVersion	M	
Identification Info	MD_DataIdentification	MA	citation	M	
			abstract	M	Description
			purpose	M	
			supplementalInformation	MA	
			status	M	
			language	M	Language
			characterSet	M	
			topicCategory	M	Subject
	SV_ServiceIdentification	MA	citation	M	
			abstract	M	Description
			status	M	
			serviceType	M	
	MD_Keywords	M	keyword	M	
			type	MA	
			thesaurusName	M	
	MD_AggregateInformation	MA	aggregateDatasetName	M	
associationType			M		
Constraints	MD_LegalConstraints	MA	useConstraints	M	Usage Considerations
			accessConstraints	M	

Section	Package	Obligation	Tag	Obligation	CORMAP Equivalent
			otherConstraints	M	
	MD_SecurityConstraints	M	classification	M	Security Classification
			userNote	M	
			classificationSystem	M	
Data Quality Information	DQ_Scope	M	level	M	
	DQ_Report	MA	measureDescription	M	
			dateTime	MA	
			result	M	
	DQ_QuantitativeResult	MA	valueUnit	M	
			value	M	
	DQ_ConformanceResult	MA	specification	M	
			explanation	M	
			pass	M	
	LI_Source	MA	description	MA	
			sourceCitation	MA	

Section	Package	Obligation	Tag	Obligation	CORMAP Equivalent
	LI_ProcessStep	MA	sourceExtent	MA	
			description	M	
			processor	MA	
Maintenance Information	MD_MaintenanceInformation	M	maintenanceAndUpdateFrequency	M	
Reference system Information	MD_ReferenceSystem	M	referenceSystemIdentifier	M	
			code	M	
Content Information	MD_FeaturecatalogueDescription	M	includedWithDataset	M	
			featureTypes	M	
			featureCatalogueCitation	M	
Distribution Information	MD_DigitalTransferOptions	M	transferSize	M	
			onLine	M	
	MD_Distributor	M	distributorContact	M	
	MD_Format	M	name	M	Format
			version	M	
Extent Information	EX_GeographicBoundingBox	M	westBoundLongitude	M	
			eastBoundLongitude	M	
			southBoundLatitude	M	
			northBoundLatitude	M	
	EX_TemporalExtent	M	extent	M	

Citation Package	Tag	Obligation	CORMAP
CI_Citation	title	M	
	alternateTitle	MA	
	presentationForm	MA	
CI_ResponsibleParty	organizationName	M	Creator
	positionName	M	
	role	M	
CI_Contact	hoursOfService	MA	
	contactInstructions	MA	
CI_Address	deliveryPoint	MA	
	city	MA	
	admintrativeArea	MA	
	postalCode	MA	
	country	MA	
	electronicMailAddress	MA	
CI_Telephone	voice	MA	
	facsimile	MA	
CI_Date	date	M	Date Created, Date Modified
	dateType	M	
CI_OnlineResource	linkage	M	Identifier (URI)
	protocol	M	

Additional information about applying this standard can be found in the CORMAP/FGDC/ISO Crosswalk.

Guideline:

The tool identified to populate geospatial metadata is typically ESRI’s ArcCatalog, which contains appropriate graphic user interfaces (GUIs) when the ISO 19115 North American Profile Metadata Implementation Specification metadata template is selected. Additional support information to assist in populating metadata can be found in ESRI’s [Support for ISO metadata standards in ArcGIS for Desktop](#)

Where to Apply This Standard

This standard applies to all geospatial data within the Government of Alberta.

Authority and Exceptions

The standard applies to all Government of Alberta Ministries, boards, agencies and commissions that use and maintain geospatial information for internal and external consumers. The purpose of this standard is to provide clarification and consistency in requirements around the creation and development of geospatial metadata.

Supporting Documentation

- GOA Geospatial Metadata Standard Application Profile
- GeoDiscover Alberta Metadata Standard:
http://xnet.env.gov.ab.ca/portal_pub/documents/Metadata_Standard.pdf
- CORMAP/FGDC/ISO Crosswalk
- Natural Resource Canada - <http://www.nrcan.gc.ca/earth-sciences/geomatics/canadas-spatial-data-infrastructure/standards-policies/8912>
- Government of Canada, North American Profile of ISO19115 - <http://nap.geogratis.gc.ca/metadata/register/registerItems-eng.html>
- National Oceanic and Atmospheric Administration – ISO 19115 Geographic Information Workbook
<http://service.ncddc.noaa.gov/rdn/www/metadata-standards/documents/MD-Metadata.pdf>
- International Organization for Standardization (ISO) - <http://www.iso.org/iso/home.html>
- Federal Geographic Data Committee - <https://www.fgdc.gov/metadata/geospatial-metadata-standards>

Owner

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Additional Information

Audience	GoA
Source	GeoDiscover Alberta Program Office
Sensitivity	Unrestricted:
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Appendix A

Types of Standards	Description
Technical Standard	These are detailed, unique standards that have developed in response to government IMT policies. Technical standards are intended to be replicable, transferable, and adaptable across ministries and other government agencies. Examples of these could include address data standards or specifications for a single identifier for transacting with government electronically.
Product Standard	An IMT product or specific technology oriented standard that facilitates the task of planning for enhancements and acquisitions within the government's broad information systems environment. As a definitive list of the numerous technologies either employed or under evaluation by Workplace Technology Services, product standards are critical in establishing conformity, interoperability and interchange-ability. Examples of these could include a government-wide standard for document, record management and database, and the list of core products for government workstations.
Process Standard	An established, mandatory business practice that supports IMT projects and existing systems to improve the outcome, diminish risks, and increase reliability. Examples could include business continuity planning processes, threat risk assessment processes, etc.
Reference Standard	An IMT industry standard (either a national or international formal or de facto standard) that has been adopted for use by the Province of Alberta. A Reference Standard may be adopted either as stand-alone or as a precursor to a customized standard or policy document. Examples could include the 1024 bit RSA standard for public key encryption.