## **Government of Ontario**



## Web Metadata Standard

Government of Ontario IT Standards (GO-ITS)

Document No. 43

Version 1.0

Status: Approved

## OCCIO/OCCTO

MANAGEMENT BOARD SECRETARIAT CORPORATE ARCHITECTURE BRANCH TECHNICAL STANDARDS SECTION

Last Review Date: March 14, 2005

### **Foreword**

Government of Ontario Information & Technology Standards are the official publications on the standards, guidelines, technical reports and preferred practices adopted by the Information Technology Standards Council under delegated authority of the Management Board of Cabinet. These publications support the Management Board Secretariat's responsibilities for coordinating standardization of Information and Technology in the Government of Ontario. Publications that set new or revised standards provide policy guidance and administrative information for their implementation. In particular, they describe where the application of a standard is mandatory and specify any qualifications governing its implementation.

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### Introduction

The amount of information available on the World Wide Web is increasing at a phenomenal rate every day and as a result, it is becoming harder and harder to discover and access the information we need and to manage and share the information we produce.

Search engines can help us find the information we want on the Web to some extent, but trying to sort through search results and find the information that is relevant to us can still be very time consuming. Good metadata can help us find the information we need and help us make better decisions about which web resources are relevant to us and which ones are not. Content Management Systems help us manage the information we produce but without consistent and standardized metadata, many of the desirable features of Content Management Systems cannot be realized. Increasingly, the Government of Ontario is working collaboratively with governments in other jurisdictions but without harmonized metadata standards, exchanging information electronically can be difficult and costly.

In simple terms, **metadata is data about data**. Metadata can describe any type of data but this standard applies to web resources in particular. **A web resource is defined as an information resource addressable via a Uniform Resource Locator (URL).** Web pages, digitized images, sound files, videos or any other information resources available on Internet, Intranet or Extranet websites are examples of web resources.

#### 1.1 Applicability

Government of Ontario IT Standards and Enterprise Products apply (are mandatory) for use by all ministries/clusters and to all former Schedule I and IV provincial government agencies under their present classification (Advisory, Regulatory, Adjudicative, Operational Service, Operational Enterprise, Trust or Crown Foundation) according to the current agency classification system. Additionally, this applies to any other new or existing agencies designated by Management Board of Cabinet as being subject to such publications.

#### 1.2 Requirement and Obligation Levels

GO-ITS documents may combine **mandatory** and **non-mandatory** information as necessary to effectively describe the requirements of a standard.

Where indicated throughout this standard, the terms 'must' and 'should' will be interpreted as follows:

**Must**; is mandatory (new standards are not retroactive, but new standards must be complied with at the next procurement/project opportunity)

**Should**; is best practice, already vetted, advantage to use, expedites approval process

Additionally, each metadata element and refinement described by this standard has one of three levels of obligation. The three levels of obligation are:

**Mandatory:** The element or refinement **must** have a value.

**Conditional:** The element or refinement is Mandatory if a certain condition is met. If the condition is not met, then the element or refinement is Optional.

**Optional:** The element or refinement should be given a value if appropriate and the information is available.

#### 1.3 Document Types and Filenames

Acronym	Туре
GO-ITS	Government of Ontario Information Technology Standard

File Name: GO-ITS 43 Web Metadata v1.0.pdf

#### 1.4 Purpose of the Standard

This standard outlines a set of metadata elements for the description of Government of Ontario web resources. The objectives of this standard are to:

- Promote the uniform application of metadata to web resources;
- Improve interoperability and enable collaboration by harmonizing with other OPS, government and international metadata standards;
- Provide a consistent approach to web resource discovery and access;
- Support web resource management and administrative processes;
- Allow for web resource permissions management and;
- Support the preservation and migration of web resources.

#### 1.5 Recommended Versioning and/or Change Management

This standard will be reviewed and revised as necessary by the Government of Ontario Web Metadata Working Group (WMWG), which is mandated by and reports to the GO Portal Federation Organization.

This standard is based on the Dublin Core Metadata Element Set (DCMES) and the Dublin Core Metadata Initiative's (DCMI) Metadata Terms. When changes are made to the DCMES or DCMI Metadata Terms, the WMWG will evaluate the changes and consider them for future versions of this standard. See section 2.1 for more information regarding the DCMES and the DCMI Metadata Terms.

#### 1.6 Contact Information

	Contact 1	Contact 2
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Organization/ Ministry	Management Board Secretariat	Management Board Secretariat
Division	Office of the Corporate Chief Strategist	Office of the Corporate Chief Strategist
Branch	E-Government	E-Government
Section/ Unit	Portal Federation Operations	Portal Federation Operations
Office Phone	416-212-7001	416-327-2709
E-mail	andrew.lefrancq@mbs.gov.on.ca	david.tallan@mbs.gov.on.ca

#### 1.7 Type of Standard

Select the appropriate category for this standard.

Check One	Type of Standard
	Implementation Standard – requirements or specifications, which may include advise and guidance, for the implementation of a technology or the performance of an activity related to the use of technology, applicable throughout the provincial government. (e.g. mandatory O/S configuration requirements, security procedures, web page design requirements etc.).
V	Information Standard – specifications for a data format (e.g. XML schema, metadata, and/or related data models)
	Technical Standard - networking and communications specifications, protocols, interfaces (API's) (e.g. standards adopted from recognized standards development organizations such as W3C, OASIS or IETF such as TCP/IP, XML, SOAP, etc.)
	Architecture Standard – application patterns, architecture and standards principles governing the design and technology decisions for the development of major enterprise applications

Please indicate if this standard should be restricted to publishing on the Internal (Intranet) IT Standards web site or whether it is intended for publishing on the public (Internet) Government of Ontario IT Standards web site.

Check One	Publish as Internal or External
One	

Internal Standard
External Standard

## 1.8 Acknowledgements

Provide a list of individuals and stakeholder groups that contributed to the development of this standard, including those who helped write the standard and provided subject expertise as well as those groups or individuals contacted for input/comments.

## 1.8.1 Development Team

Name	Cluster/Ministry	Branch		
Alana Boltwood	Management Board Secretariat	Corporate Architecture		
		& Standards Branch		
Andrew Lefrancq	Management Board Secretariat	E-Government Branch		
Anita BeauSoleil	Ministry of Citizenship and Immigration	Accessibility Directorate		
		of Ontario		
Annemarie Toth-Waddell	Legislative Library of the Legislative	Information Resources		
	Assembly of Ontario	Branch		
Beverly Betts	Management Board Secretariat	Customer Relations		
		Branch, Shared		
		Services Bureau		
Brady Thompson	Community Services I&IT Cluster	Planning and		
		Architecture		
David Tallan	Management Board Secretariat	E-Government Branch		
Denis Perreault	Management Board Secretariat	Government Translation		
		Service		
Don Macleod	Management Board Secretariat	Archives of Ontario		
Heath Finley	Land and Resources Cluster/Ministry	Information Resource		
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Helena Slavik	Ministry of Municipal Affairs and	Corporate Planning		
	Housing	Branch		
Jeannette Cournoyer	Ministry of Education and Ministry of	Communications		
	Training, Colleges and Universities	Branch		
Julie Hannaford				
(Ontario Institute for				
Studies in Education,				
University of Toronto)				
Sarah Saunders	Ministry of Health and Long-Term Care	Communications and		
		Information Branch		
Scott Gow	Management Board Secretariat	E-Government Branch		
Simon Loban	Ministry of Education and Ministry of	Brian Fleming Research		
	Training, Colleges and Universities	and Learning Library		
Susanne Floresco	Ministry of Finance	Communications and		
		Corporate Affairs		
		Branch		

#### 1.8.2 Reviewers

Check	Area	Date: (month/year)
	Technical Standards Unit, Corporate Architecture Branch, OCCTO	
	Corporate Architecture Branch (CAB Architects), OCCTO	
	Infrastructure Development Branch & iSERV, OCCSD	
<b>V</b>	Corporate Security Branch, OCCS	
V	Muriel Petersen	Oct 2004
	I&IT Strategy, Policy & Planning Branch (SPPM, OCCS)	
V	Caroline Crnekovic (Access and Privacy Office) Eric Lawton (Access and Privacy Office) Mary Macdonald (Access and Privacy Office) Mark Hallas (Access and Privacy Office)	Oct 2004 Oct 2004 Oct 2004 Oct 2004
$\checkmark$	Corporate ACT and Domain Working Groups	
<b>V</b>	Information Architecture Domain (IADWG)	Nov 2004
<b>V</b>	Application Architecture Domain (AADWG)	Nov 2004
<b>V</b>	<ul> <li>✓ – Security Architecture Working Group (SAWG)</li> </ul>	
	Cluster ACT/ARB (for cluster standards promoted to corporate standards)	
<b>V</b>	ITSC members (provide name)	
V	Paul Scale	Nov 2004
$\square$	Others (provide name):	
	Jim Evans, MCBS	Nov 2004

## 1.9 Impacts to Standards

List any existing GO-ITS that may be impacted or associated with this standard.

GO-ITS #	Describe Impact	Recommended Action (or page number where details can be found)
23.1	Section 1.9 of GO-ITS 23.1 has been incorporated into this standard.	Amend GO-ITS 23.1 Section 1.9 to point to this standard for metadata requirements.

### **1.10 Impacts to Existing Environment**

List any significant impacts this standard may have on the existing I&IT environment.

Application(s) or Infrastructure Impacted	Describe Impact	Recommended Action (or page number where details can be found)
None		

#### 1. The Web Metadata Standard

All Government of Ontario web resources **must** be described with the mandatory and, where applicable, conditional metadata elements and refinements outlined by this standard. All other elements and refinements described by this standard are recommended and should be applied to web resources where appropriate.

#### 2.1 The Dublin Core Metadata Initiative

The Government of Ontario Web Metadata Element Set (GO-WMES) is based on the Dublin Core Metadata Element Set (DCMES) and the Dublin Core Metadata Initiative's (DCMI) Metadata Terms.

The DCMI began in 1995 in Dublin, Ohio, USA. The first DCMI workshop brought together a group of librarians, digital library researchers, content providers and text markup experts to discuss how a core set of semantics for Web-based resources would be useful for categorizing the Web for easier search and retrieval. Further workshops were held around the world that eventually led to the development of the DCMES, a simple and easy to use set of 15 descriptors that can be applied across a wide range of disciplines and industries. The DCMES has since been issued by the International Organization for Standardization as ISO Standard 15836-2003 and by the American National Standards Institute as ANSI/NISO Z39.85-2001. The DCMES was later expanded upon to include metadata element refinements and encoding schemes. This expanded version of the DCMES is known as the DCMI Metadata Terms.

Dublin Core has as its goals the following characteristics:

#### Simplicity of creation and maintenance

The DCMES was designed to allow a non-specialist to easily and inexpensively create simple descriptive records for web resources while providing for effective retrieval of those resources in a networked environment.

#### Commonly understood semantics

Discovery of information across the vast commons of the Internet is hindered by differences in terminology and descriptive practices from one field of knowledge to the next. The Dublin Core can help a non-specialist searcher find his or her way by supporting a common set of elements, the semantics of which are universally understood and supported.

#### International scope

The involvement of representatives from virtually every continent has ensured that the development of the DCMES considers the multilingual and multicultural nature of the electronic information universe.

#### Extensibility

While balancing the needs for simplicity in describing digital resources with the need for precise retrieval, Dublin Core developers have recognized the importance of providing a mechanism for extending the DC element set for additional resource discovery needs. It is expected that other communities of metadata experts will create and administer additional metadata sets, specialized to the needs of their communities. Metadata elements from these sets could be used in conjunction with Dublin Core metadata to meet the need for interoperabilbility.

The full description of the DCMES can be found at: http://dublincore.org/documents/dces/http://www.niso.org/international/SC4/n515.pdf http://www.niso.org/standards/resources/Z39-85.pdf

The full description of the DCMI Metadata Terms can be found at: http://dublincore.org/documents/dcmi-terms/

Further information about the DCMI can be found at: http://dublincore.org

#### 2.2 Elements, Refinements and Encoding Schemes

A metadata element is used to describe a property of a web resource. Properties of a web resource are characteristics that the web resource may have such as a Title, a Subject or a Creator. While most of the elements described by this standard can be used on their own, many of them include element refinements.

Element refinements are used to narrow the semantics of an element. They are intended to make the meaning of an element more specific but ideally, someone reading the metadata should be able to ignore any element refinement and use the value as if the element were unrefined.

Many of the elements also include encoding schemes, which provide contextual information or parsing rules that help with the interpretation of an element's value. Encoding schemes include both syntax encoding schemes and vocabulary encoding schemes. Syntax encoding schemes indicate that a value is a string formatted in accordance with a formal notation, such as "2004-01-01" as the standard expression of a date. Vocabulary encoding schemes indicate that a metadata element or an element refinement's value is a term from a controlled vocabulary, such as the value "Architectural Heritage" from the Government of Canada's Core Subject Thesaurus.

The GO-WMES is intentionally simple and broad. If necessary, the GO-WMES may be extended locally by adding elements, element refinements or encoding schemes however, the GO Web Metadata Working Group should be contacted for guidance and advice (see section 1.6 for contact information).

#### 2.3 HTML documents and meta tags

The Government of Ontario's search engine will be configured to read Dublin Core elements and refinements. However, many commercial search engines are configured to read and use only three non-Dublin Core metadata elements. The three elements include the value between the <title> and </title> HTML tags, <keywords> and <description>.

A descriptive <title> tag **must** be included in the header section of every HTML web page. The content of the Dublin Core "Title" metadata element **must** match the content of the HTML <title> tag. For example, the following would be included in the <head> section of the Government of Ontario's Central Web Site's English home page:

```
<html>
<head>
<title>Government of Ontario, Canada: Home Page</title>
<meta name="dc.title" content="Government of Ontario, Canada: Home Page" />
<!-- Additional GO-WMES metadata -->
</head>
```

The content of the HTML <code><keywords></code> meta tag **must** include keywords or phrases that are likely to be used by searchers to find your web resource. When describing an HTML web resource, both the Dublin Core "Subject" metadata element and the HTML <code><keywords></code> meta tag **must** be used. While "Subject" terms **must** be selected from a controlled vocabulary, <code><keywords></code> may include natural language or uncontrolled terms. However, the terms used to populate <code><keywords></code> **must** at least include the controlled terms used to populate the Dublin Core "Subject" metadata element. Using the same example as above, the Government of Ontario's Central Web Site's English home page would include the following in the <code><head></code> section of the web page:

```
<html>
  <head>
  <title>Government of Ontario, Canada: Home Page</title>
  <meta name="dc.title" content="Government of Ontario, Canada: Home Page" />
  <meta name="dc.subject" scheme="xyz" content="government; Ontario; Province of Ontario" />
  <meta name="keywords" content="government, Ontario, Province of Ontario" />
  <!-- Additional GO-WMES metadata -->
  </head>
```

The HTML <code>description></code> meta tag is a short summary of the intellectual content of a web resource. Some search engines display this description in search results and searchers can use this information to determine which search results match their needs. If no <code>description></code> meta tag is included in the header section of the web resource, a search engine may display the first few sentences that appear on the page, which may not be very helpful to someone performing a web search. If the web resource being described is an HTML web page, then both the Dublin Core "Description" metadata element and the HTML <code>description></code> meta tag <code>must</code> be used. The content of both the Dublin Core "Description" metadata element and the HTML <code>description></code> meta tag <code>must</code> be equivalent. Again, using the same example as above, the Government of Ontario's Central Web Site's English home page would include the following in the <code>head></code> section of the page:

```
<html>
<head>
<title>Government of Ontario, Canada: Home Page</title>
<meta name="dc.title" content="Government of Ontario, Canada: Home Page" />
<meta name="dc.subject" scheme="xyz" content="government; Ontario; Province of Ontario" />
<meta name="keywords" content="government, Ontario, Province of Ontario" />
<meta name="dc.description" content="The official home page of the Government of the Province of Ontario, Canada." />
<meta name="description" content="The official home page of the Government of the Province of Ontario, Canada." />
<!-- Additional GO-WMES metadata -->
</head>
```

#### 2.4 Guidance

Implementation guides, tools and controlled vocabularies will be developed and made available. The HTML examples included in this standard are for reference only. The implementation guides **must** be used to guide the implementation of this standard.

#### 2.5 Privacy

All metadata for Government of Ontario web resources **must** be created in accordance with the *Freedom of Information and Protection of Privacy Act* (*FIPPA*) which can be found on the Government of Ontario's e-Laws website at: http://www.e-laws.gov.on.ca/DBLaws/Statutes/English/90f31 e.htm

Contact your ministry's Freedom of Information Coordinator for information and advice regarding FIPPA. A list of Government of Ontario Freedom of Information Coordinators can be found at:

http://www.cfipo.gov.on.ca/mbs/dor/dirrec.nsf/HighUnitNameView?openview

#### 2.5.1 Personal Information

Personal information **must not** be included in the content of metadata elements or element refinements.

#### 2.5.2 Government of Ontario Employee Names

Government of Ontario employee names and business contact information is not considered personal information when performing job related functions and thus may be included in the content of metadata elements or element refinements where appropriate. However, it is **strongly recommended** that job titles and/or organizational names be used rather than employee names.

# 2. Government of Ontario Web Metadata Element Set (GO-WMES)

In most cases, the DCMES and DCMI Metadata Terms' definitions and comments have not been altered but in some cases, they have been modified to clarify them or to make them more specific to the Government of Ontario. Throughout the GO-WMES, *italics* are used to indicate element names, definitions, comments or refinements that are <u>not</u> part of the DCMES or the DCMI Metadata Terms.

## 3.1 Summary

For the "Obligation" column: M=Mandatory, C=Conditional, O=Optional, N/A=Not Applicable.

#	ELEMENTS	Obligation Repeata			Repeatable	able?		
	Refinements	M	С	0	N/A	Yes	No	N/A
1.	TITLE	М				Yes		
	Alternative			0		Yes		
2.	CREATOR	М				Yes		
3.	SUBJECT and KEYWORDS	M*	C*			Yes		
4.	DESCRIPTION	М				Yes		
5.	PUBLISHER	M				Yes		
6.	CONTRIBUTOR			0		Yes		
	Editor			0		Yes		
	Page Designer			0		Yes		
	Illustrator			0		Yes		
7.	DATE				N/A			N/A
	Available			0		Yes		
	Created	M					No	
	Current As Of			0		Yes		
	Date Accepted			0		Yes		
	Date Submitted			0		Yes		
	Issued		С				No	
	Modified	1	C			Yes		
	Valid			0		Yes		
8.	TYPE			0		Yes		
9.	FORMAT	М					No	
10.	IDENTIFIER	М				Yes		
11.	LANGUAGE	М				Yes		
12.	RELATION			0		Yes		
	Conforms To			0		Yes		
	Has Adaptation		С	_		Yes		
	Has Format		C			Yes		
	Has Part			0		Yes		
	Has Translation		С			Yes		
	Has Version			0		Yes		
	Is Adaptation Of		С			Yes		
	Is Format Of			0		Yes		
	Is Part Of			0		Yes		
	Is Referenced By			0		Yes		
	Is Replaced By			0		Yes		
	Is Required By			0		Yes		
	Is Translation Of		С			Yes		
	Is Version Of			0		Yes		
	References			0		Yes		
	Replaces			0		Yes		
	Requires			0		Yes		
13.	COVERAGE				N/A			N/A
	Jurisdiction			0		Yes		
	Spatial			0		Yes		
	Temporal			0		Yes		
14.	RIGHTS				N/A			N/A
	Access Rights			0		Yes		
	Information Classification Level		С				No	
	Intellectual Property	М				Yes		
15.	AUDIENCE			0		Yes		
16.	MANDATE			0		Yes		
17.	VERSION			0			No	
18.	CONTACT			0		Yes		
	Content			Ö		Yes		
	Technical	1	1	Ö		Yes	1	
19.	RECORDS RETENTION SCHEDULE ID		С				No	

<sup>\* &</sup>quot;Subject" is mandatory; "Keywords" is conditional

## 3.2 Full Description

Each metadata element in the GO-WMES is described in the following way:

## **Element Name**

Definition	A statement that represents the concept and essential nature of an element.				
Comments	Additional information about an element or its application.				
Refinements	1 <sup>st</sup> Refinement				
1101111011101110	Name				
	2 <sup>nd</sup> Refinement	2 <sup>nd</sup> Refinement Definition			
	Name	2 Remember Bennicon			
	Hamo				
	n <sup>th</sup> Refinement	n <sup>th</sup> Refinement Definition			
	Name	11 Remement Demintion			
Repeatability		ement or element refinement can be repeated for a			
Repeatability	single web resource.	ement of element refinement can be repeated for a			
Encoding	Encoding Schemes in	oclude:			
Schemes	Literally Schemes ii	iciade.			
ochenies	1 Syntax ancoding	schomes to be used to express and interpret an			
	Syntax encoding schemes to be used to express and interpret an element's or an element refinement's value;				
	<ul><li>2. Vocabulary encoding schemes to be used to select values for an</li></ul>				
	element or an element refinement.				
Obligation	The obligation level of an element and, if applicable, an element's				
Obligation	refinements. Each element and refinement is mandatory, conditional or				
	optional (see section 1.2 for definitions of mandatory, conditional and				
	optional).				
HTML		metadata should appear in the header of an HTML			
Examples	file.				
LAdinpics	IIIC.				
	When embedding GO-WMES elements in the <head> section of an</head>				
	HTML document, element names from the DCMES are prefixed with "dc".				
	The "Audience" element from the DCMI Metadata Terms is prefixed with				
	"dcterms". "Mandate", "Version", "Contact" and "Records Retention				
	Schedule ID" are prefixed with "go".				
	Schedule ib are prefixed with go.				

# 3.2.1 Title

Definition	A name given to the	resource.		
Comments		be a name by which the resource is formally known.		
	If the resource being described is an HTML web page, then the content of			
	"Title" <b>must</b> match the content of the HTML <title> tag.&lt;/th&gt;&lt;/tr&gt;&lt;tr&gt;&lt;th&gt;Refinements&lt;/th&gt;&lt;th&gt;Alternative&lt;/th&gt;&lt;th&gt;Any form of the title used as a substitute or&lt;/th&gt;&lt;/tr&gt;&lt;tr&gt;&lt;th&gt;&lt;/th&gt;&lt;th&gt;&lt;/th&gt;&lt;th&gt;alternative to the formal title of the resource.&lt;/th&gt;&lt;/tr&gt;&lt;tr&gt;&lt;th&gt;Repeatability&lt;/th&gt;&lt;th colspan=2&gt;"Title" is repeatable when a single web resource has titles in more than&lt;/th&gt;&lt;/tr&gt;&lt;tr&gt;&lt;th&gt;&lt;/th&gt;&lt;th&gt;one language.&lt;/th&gt;&lt;th&gt;&lt;/th&gt;&lt;/tr&gt;&lt;tr&gt;&lt;th&gt;&lt;/th&gt;&lt;th&gt;"Alternative" is repea&lt;/th&gt;&lt;th&gt;&lt;/th&gt;&lt;/tr&gt;&lt;tr&gt;&lt;th&gt;Encoding&lt;/th&gt;&lt;th&gt;&lt;/th&gt;&lt;th&gt;nts, program areas or project teams may define their&lt;/th&gt;&lt;/tr&gt;&lt;tr&gt;&lt;th&gt;Schemes&lt;/th&gt;&lt;th&gt;own web resource titl&lt;/th&gt;&lt;th&gt;&lt;/th&gt;&lt;/tr&gt;&lt;tr&gt;&lt;th&gt;Obligation&lt;/th&gt;&lt;th&gt;Title&lt;/th&gt;&lt;th&gt;Mandatory&lt;/th&gt;&lt;/tr&gt;&lt;tr&gt;&lt;th&gt;&lt;/th&gt;&lt;th&gt;Alternative&lt;/th&gt;&lt;th&gt;Optional&lt;/th&gt;&lt;/tr&gt;&lt;tr&gt;&lt;th&gt;_ HTML&lt;/th&gt;&lt;th&gt;&lt;/th&gt;&lt;th&gt;of Ontario's Central site:&lt;/th&gt;&lt;/tr&gt;&lt;tr&gt;&lt;th&gt;Examples&lt;/th&gt;&lt;th&gt;&lt;/th&gt;&lt;th&gt;nt of Ontario, Canada: Home&lt;/th&gt;&lt;/tr&gt;&lt;tr&gt;&lt;th&gt;&lt;/th&gt;&lt;th&gt;Page</title>			
		title" content="Government of Ontario,		
	Canada: Home Pag	ge //		
	For a hilingual websit	re's splash page with titles in both English and		
	For a bilingual website's splash page with titles in both English and French:			
		ntry page/Page de garde		
	d'ONTERM			
	<meta content="ONTERM Entry page" name="dc.t&lt;/th&gt;&lt;th&gt;title"/>			
	<meta <="" content="Page de garde d'ONTERM" name="dc.t&lt;/th&gt;&lt;th&gt;title" th=""/>			
	/>			
		resource with the formal title "Defining Programs		
	and Services in the Ontario Public Service" and a commonly known			
	informal title:			
	<pre><meta content="Defining Programs and&lt;/pre&gt;&lt;/th&gt;&lt;/tr&gt;&lt;tr&gt;&lt;th&gt;&lt;/th&gt;&lt;th colspan=2&gt;Services in the Ontario Public Service" name="dc.title"/></pre>			
	<pre><meta content="Service Definition Handbook" name="dc.title.alternative"/></pre>			
	Definition Handbook" />			

## 3.2.2 Creator

Definition	An entity primarily responsible for making the content of the resource.
Comments	Specifies the organization, individual and/or system responsible for the
	creation of the resource.
Refinements	None
Repeatability	"Creator" is repeatable.
Encoding	When specifying an organizational hierarchy, start with the largest
Schemes	organizational level you wish to specify. When specifying an individual,
	express the individual's name starting with their last name followed by a
	comma, then their first name. An individual's job title may be included as
	well following their name.
Obligation	Creator Mandatory
HTML	For a web resource created by the Highways and Business Services
Examples	Application Solutions Branch of the Ministry of Transportation:
	<pre><meta content="Government of&lt;/pre&gt;&lt;/th&gt;&lt;/tr&gt;&lt;tr&gt;&lt;th&gt;&lt;/th&gt;&lt;th&gt;Ontario, Ministry of Transportation, Transportation&lt;/th&gt;&lt;/tr&gt;&lt;tr&gt;&lt;th&gt;&lt;/th&gt;&lt;th&gt;I&amp;IT Cluster, Highways and Business Services&lt;/th&gt;&lt;/tr&gt;&lt;tr&gt;&lt;th&gt;&lt;/th&gt;&lt;th colspan=2&gt;Application Solutions Branch" name="dc.creator"/></pre>
	For a web resource created by the Veterinary Science branch of the Ministry of Agriculture and Food: <meta content="Government of Ontario, Ministry of Agriculture and Food, Agriculture and Food Division, Livestock Technology, Veterinary Science" name="dc.creator"/>
	For a web resource created by an individual named Jane Doe: <meta content="Doe, Jane" name="dc.creator"/> For a web resource created by an external consulting firm: <meta content="GovConsultants Inc." name="dc.creator"/>

# 3.2.3 Subject and Keywords

The tonic of the conte	ant of the resource	
Typically, a Subject will be expressed as keywords, key phrases or		
classification codes that describe a topic of the resource.		
classification codes that describe a topic of the resource.		
If the web resource b	eing described is an HTML web page, then both the	
	" metadata element and the HTML <keywords></keywords>	
-		
meta tag must be used. <keywords> may include natural language terms that have not been selected from a controlled vocabulary but the</keywords>		
	te <keywords> must at least include the controlled</keywords>	
	te the Dublin Core "Subject" metadata element.	
Subject terms <b>must</b> t	be chosen from an approved controlled vocabulary.	
0.13.4	Mary Later	
•	Mandatory	
Keywords	Conditional	
	16.1	
	If the web resource being described is an HTML	
E LITAU	web page, then "Keywords" is mandatory.	
	source with multiple subject terms chosen from the	
	subject" scheme="abc" content="Tourism;	
-		
<pre><meta content="Tourism; Toronto;&lt;/pre&gt;&lt;/th&gt;&lt;/tr&gt;&lt;tr&gt;&lt;th colspan=2&gt;Ontario; Travelling; Visiting Toronto" name="keywords"/></pre>		
For an UTML web recourse with publicate above from multiple controlled		
For an HTML web resource with subjects chosen from multiple controlled		
<pre>vocabularies. <meta <="" name="dc.subject" pre="" scheme="gccore"/></pre>		
	Lon; Vitamins; Cooking" />	
	subject" scheme="cv" content="Eating	
Right; Healthy Living" />		
<pre><meta content="Nutrition, Vitamins,&lt;/pre&gt;&lt;/th&gt;&lt;/tr&gt;&lt;tr&gt;&lt;th colspan=2&gt;Cooking, Eating Right, Healthy Living" name="keywords"/></pre>		
	classification codes to  If the web resource be Dublin Core "Subject meta tag must be use terms that have not be terms used to populate t	

## 3.2.4 Description

Definition	An account of the content of the resource.		
Comments	Description may include but is not limited to: an abstract, table of contents, reference to a graphical representation of content or a free-text account of the content.  If the web resource being described is an HTML web page, then both the Dublin Core "Description" metadata element and the HTML <description> meta tag must be used. The content of both the Dublin Core "Description" metadata element and the HTML <description> metadata element and the HTML <description> meta tag must be equivalent.</description></description></description>		
Refinements	None		
Repeatability	"Description" is repeatable.		
Encoding	-		
Schemes			
Obligation	Description   Mandatory		
HTML	For a description of the Government of Ontario's central website:		
Examples	<pre><meta content="The official home&lt;/pre&gt;&lt;/th&gt;&lt;/tr&gt;&lt;tr&gt;&lt;th&gt;&lt;/th&gt;&lt;th colspan=2&gt;page of the Government of the Province of Ontario,&lt;/th&gt;&lt;/tr&gt;&lt;tr&gt;&lt;th&gt;&lt;/th&gt;&lt;th colspan=2&gt;Canada." name="dc.description"/></pre>		
	<pre><meta content="The official home&lt;/pre&gt;&lt;/th&gt;&lt;/tr&gt;&lt;tr&gt;&lt;th&gt;&lt;/th&gt;&lt;th colspan=2&gt;page of the Government of the Province of Ontario,&lt;/th&gt;&lt;/tr&gt;&lt;tr&gt;&lt;th&gt;&lt;/th&gt;&lt;th colspan=2&gt;Canada." name="description"/></pre>		

## 3.2.5 Publisher

Definition	An entity responsible for making the resource available.	
Comments	Publisher <b>must</b> be populated with the name of an organization and/or	
	group responsible for making the resource available in its current form.	
Refinements	None	
Repeatability	"Publisher" is repeatable when multiple organizations or groups jointly	
,	publish a web resource.	
Encoding	When specifying an organizational hierarchy, start with the largest	
Schemes	organizational level you wish to specify.	
Obligation	Publisher Mandatory	
HTML	For a web resource published by the Ministry of Culture's Public Relations	
Examples	unit:	
	<pre><meta content="Government of&lt;/pre&gt;&lt;/th&gt;&lt;/tr&gt;&lt;tr&gt;&lt;th&gt;&lt;/th&gt;&lt;th colspan=3&gt;Ontario, Ministry of Culture, Deputy Minister,&lt;/th&gt;&lt;/tr&gt;&lt;tr&gt;&lt;th&gt;&lt;/th&gt;&lt;th colspan=3&gt;Communications Branch, Public Relations Unit" name="dc.publisher"/></pre>	
	For a web resource jointly published by the Ministry of Citizenship and	
	Immigration and the Government of Canada:	
	<pre><meta content="Government of&lt;/pre&gt;&lt;/th&gt;&lt;/tr&gt;&lt;tr&gt;&lt;th&gt;&lt;/th&gt;&lt;th&gt;Ontario, Ministry of Citizenship and Immigration" name="dc.publisher"/></pre>	
	<pre><meta content="Government of&lt;/pre&gt;&lt;/th&gt;&lt;/tr&gt;&lt;tr&gt;&lt;th&gt;&lt;/th&gt;&lt;th&gt;Canada" name="dc.publisher"/></pre>	

## 3.2.6 Contributor

An entity responsible for making contributions to the content of the	
Specifies organizations, groups or individuals that contributed to the web resource.	
Editor The organization, group or individual responsible	
	for the revision of the web resource for the
	purposes of publication or public presentation.
Page Designer	The individual responsible for designing a web
	page.
Illustrator	The individual responsible for creating an image.
	refinements are repeatable.
	organizational hierarchy, start with the largest
	ou wish to specify. When specifying an individual,
	I's name starting with their last name followed by a
	st name. An individual's job title may be included as
	Optional
	Optional
	Optional
	Optional
	nat received input from, but was not created by, the
	Development Branch of the Ministry of Northern
Development and Mir	
	contributor" content="Government of
Ontario, Ministry of Northern Development and Mines,	
Northern Development Division, Regional Economic	
Development Branch" />	
For a web resource the	nat was edited by an individual:
	contributor.editor" content="Smith,
	00
For a webpage designed by an individual:	
	contributor.pageDesigner" content="Doe,
John" />	
For images embedded in a web page that were created by the	
Communications and Marketing Branch of the Ministry of Community and	
<pre>Social Services:</pre>	
content="Government of Ontario, Ministry of Community	
and Social Services, Deputy Minister's Office,	
Communications and Marketing Branch" />	
	resource.  Specifies organization resource.  Editor  Page Designer  Illustrator  "Contributor" and its in the specifying and organizational level yexpress the individual comma, then their first well following their national contributor  Editor  Page Designer  Illustrator  For a web resource the Regional Economic Development and Ministrator  For a web resource the Regional Economic Development Brand Northern Development Brand Northern Development Brand Social Services:  Images embedded Communications and Social Services:

## 3.2.7 Date

Definition	A date associated wi	th an event in the life cycle of the resource.
Comments	Typically, Date will be associated with the creation or availability of the	
	resource.	
Refinements	Available	Date (often a range) that the resource will become
		or did become available
	Created	Date of creation of the resource.
	Current As Of	Date that the resource was last checked for validity.
	Date Accepted	Date of acceptance of the resource (e.g. of thesis
		by university department, of article by journal, etc.).
	Date Submitted	Date of submission of the resource (e.g. thesis,
		articles, etc.).
	Issued	Date of formal issuance (e.g., publication) of the
		resource. Use "Issued" to specify the date the web
	14 UC 1	resource was first published on the web.
	Modified	Date on which the resource was changed.
	Valid	Date (often a range) of validity of a resource.
Repeatability	"Date Created" and "Date Issued" are not repeatable.	
		nents are repeatable.
Encoding		Consortium's profile ("W3CDTF") of ISO 8601:2000
Schemes	"Data Elements and Interchange Formats – Information Interchange –	
	Representation of Dates and Time" <b>must</b> be used – http://www.w3.org/TR/NOTE-datetime	
Obligation	Date	
Obligation	Available	N/A (Date <b>must</b> be refined)
	Created	Optional Mandatory
	Current As Of	Optional
		'
	Date Accepted Date Submitted	Optional Optional
	Issued	Conditional
	Issueu	Conditional
		If the web resource is being published in its current
		form on the web for the first time then "Issued" is
		mandatory.
	Modified	Conditional
		Contamorial
		If the web resource has been modified since the
		date it was first published on the web then
		"Modified" is mandatory.
	Valid	Optional

# HTML Examples

#### For a web resource created on September 17, 2004:

<meta name="dc.date.created" scheme="W3CDTF"
content="2004-09-17" />

# For a web resource created on July 5, 2004 but first published to the web on July 10, 2004:

<meta name="dc.date.created" scheme="W3CDTF" content="2004-07-05" /> 
<meta name="dc.date.issued" scheme="W3CDTF" content="2004-07-10" />

#### For the same resource later updated on August 28, 2004:

<meta name="dc.date.created" scheme="W3CDTF"
content="2004-07-05" />
<meta name="dc.date.modified" scheme="W3CDTF"
content="2004-08-28" />

# For a web resource valid between September 17, 2004 and September 17, 2005:

<meta name="dc.date.valid" scheme="W3CDTF"
content="2004-09-17/2005-09-17" />

# For a web resource available on October 8, 2004 at 6:00 pm Eastern Standard Time (EST):

<meta name="dc.date.available" scheme="W3CDTF"
content="2004-10-08T18:00-05:00" />

# For a web resource available on November 20, 2004 at 6:00 pm Eastern Daylight Time (EDT):

<meta name="dc.date.available" scheme="W3CDTF"
content="2004-11-20T18:00-04:00" />

## 3.2.8 Type

Definition	The nature or genre	of the content of the resource.	
Comments	Type includes terms describing general categories, functions or genres		
	for content.		
Refinements	None		
Repeatability	"Type" is repeatable.		
Encoding	Recommended best practice is to select a value from an approved		
Schemes	controlled vocabulary.		
Obligation	Type	Optional	
HTML	For a news release where the term "News Release" was chosen from the		
Examples	"abc" controlled vocabulary:		
	<pre><meta content="News&lt;/pre&gt;&lt;/th&gt;&lt;/tr&gt;&lt;tr&gt;&lt;th&gt;&lt;/th&gt;&lt;th colspan=3&gt;Release" name="dc.type" scheme="abc"/></pre>		
	For a map posted on the web where the term "Map" was chosen from the		
	"abc" controlled voca	ıbulary:	
	<pre><meta content="Map" dc.type"="" name="dc.;&lt;/pre&gt;&lt;/th&gt;&lt;th colspan=2&gt;&lt;pre&gt;&lt;meta name=" scheme="abc"/></pre>		

## **3.2.9 Format**

Definition	The physical or digital manifestation of the resource.		
Comments	Typically, Format may include the media-type or dimensions of the		
	resource. Format may be used to determine the software, hardware or		
	other equipment needed to display or operate the resource.		
	Recommended best practice is to select a value from the list of Internet		
	Media Types (also known as MIME types) defining computer media		
	formats.		
Refinements	None		
Repeatability	"Format" is not repeatable.		
Encoding	Internet Media Types (IMT) Scheme (also known as MIME types) -		
Schemes	http://www.iana.org/assignments/media-types/		
Obligation	Format Mandatory		
HTML	For an HTML web page:		
Examples	<pre><meta <="" name="dc.format" pre="" scheme="IMT"/></pre>		
	content="text/html" />		
	For an Adobe® PDF document posted on the web:		
	<pre><meta <="" name="dc.format" pre="" scheme="IMT"/></pre>		
	<pre>content="application/pdf" /&gt;</pre>		
	For a Microsoft® Word document posted on the web:		
	<meta <="" name="dc.format" scheme="IMT" th=""/>		
	content="application/msword" />		

## 3.2.10 Identifier

Definition	An unambiguous reference to the resource within a given context.	
Comments	Recommended best practice is to identify the resource by means of a	
	string or number conforming to a formal identification system. Example	
	formal identification systems include the Uniform Resource Identifier	
	(URI) (including the Uniform Resource Locator (URL)), the Digital Object Identifier (DOI) and the International Standard Book Number (ISBN).	
	Identifier (DOI) and the International Standard Book Number (ISBN).	
	If the web resource being described does not have an identifier	
	conforming to a formal identification system other than a URI, the URI of	
	the web resource must be used.	
	If the web recourse being described has been essigned an ICDN or an	
	If the web resource being described has been assigned an ISBN or an ISSN, then the ISBN or ISSN number <b>must</b> be used.	
	Refer to the "Government Publications Directive" and the "Obtaining an	
	ISBN/ISSN for Ontario Government Publications & ISBN/ISSN Printing	
	Instruction FAQ" for information on which documents require an ISBN or	
	an ISSN and how to obtain them.	
	Government Publication Directive -	
	http://intra.pmed.mbs.gov.on.ca/mbc/pdf/Government_Publications.pdf	
	http://intra.pmed.mbs.gov.on.ca/mbc/pdi/Government_r ubilcations.pdi	
	Obtaining an ISBN/ISSN for Ontario Government Publications &	
	ISBN/ISSN Printing Instruction FAQ -	
	http://www.ontla.on.ca/library/isn/isnfaq.pdf	
Refinements	None	
Repeatability	"Identifier" is repeatable.	
Encoding	URI – http://www.ietf.org/rfc/rfc2396.txt	
Schemes	ISBN – http://www.isbn-international.org/	
	ISSN – http://www.issn.org:8080/pub/ DOI - http://www.doi.org/index.html	
	Other encoding schemes may be used as well, such as the native	
	identifier encoding schemes used by Content Management Systems.	
Obligation	Identifier Mandatory	
HTML	For an HTML web page:	
Examples	<pre><meta <="" name="dc.identifier" pre="" scheme="URI"/></pre>	
	content="http://www.gov.on.ca" />	
	For a web resource that has been assigned an ISBN number:	
	<pre><meta content="0-&lt;/pre&gt;&lt;/th&gt;&lt;/tr&gt;&lt;tr&gt;&lt;th&gt;&lt;/th&gt;&lt;th&gt;123456-78-9" name="dc.identifier" scheme="ISBN"/></pre>	

## 3.2.11 Language

A language of the intellectual content of the resource.	
The ISO639-2 three character bibliographic language codes <b>must</b> be	
used.	
For a walk management in American Sign Language (ASL) was the and	
For a web resource in American Sign Language (ASL), use the code "sgn-US".	
<i>3911 00 .</i>	
For a web resource in La langue des signes québécoise (LSQ), use the	
code "sgn-CA-QC".	
None	
"Language" is repeatable when the web resource being described is	
multilingual.	
ISO639-2 - http://www.loc.gov/standards/iso639-2/englangn.html	
Language Mandatory	
For a web resource in English:	
<pre><meta <="" name="dc.language" pre="" scheme="ISO629-2"/></pre>	
content="eng" />	
For a web resource in French:	
<pre><meta <="" name="dc.language" pre="" scheme="ISO629-2"/></pre>	
content="fre" />	
For a web recourse in both English and Eranahy	
For a web resource in both English and French:	
<pre><meta content="eng" name="dc.language" scheme="ISO629-2"/></pre>	
<pre>content="eng" /&gt; <meta <="" name="dc.language" pre="" scheme="IS0629-2"/></pre>	
content="fre" />	

## 3.2.12 Relation

Definition	A reference to a related resource.		
Comments	Recommended best practice is to reference the resource by means of a		
	string or number conforming to a formal identification system.		
Refinements	Conforms To	A reference to an established	
		standard to which the resource	
		conforms.	
	Has Adaptation	The described resource in the	
		source language has an adapted	
		version in the target language,	
		namely the referenced resource.	
	Has Format	The described resource pre-existed	
		the referenced resource, which is	
		essentially the same intellectual	
	Has Part	content presented in another format.	
	Has Part	The described resource includes the	
		referenced resource either physically	
	Has Translation	or logically.  The described resource in the	
	Tias Translation	source language has a translated	
		version in the target language,	
		namely the referenced resource.	
	Has Version	The described resource has a	
	That Version	version <i>or</i> edition namely, the	
		referenced resource.	
	Is Adaptation Of	The described resource is an	
	,	adaptation in the target language of	
		the referenced resource in the	
		source language.	
	Is Format Of	The described resource is the same	
		intellectual content of the referenced	
		resource, but presented in another	
	1.5.404	format.	
	Is Part Of	The described resource is a physical	
		or logical part of the referenced	
	la Deferenced Dy	resource. The described resource is	
	Is Referenced By		
		referenced, cited, or otherwise pointed to by the referenced	
		resource.	
	Is Replaced By	The described resource is	
	To replaced by	supplanted, displaced, or	
		superseded by the referenced	
		resource.	
	Is Required By	The described resource is required	
	,	by the referenced resource, either	
		physically or logically.	
	Is Translation Of	The described resource is a	
		translation in the target language of	
		the referenced resource in the	
		source language.	

	T. V. : 01	T
	Is Version Of	The described resource is a version
		or edition of the referenced resource.
		Changes in version imply
		substantive changes in content
		rather than differences in format.
	Deferences	The described resource references,
	References	,
		cites, or otherwise points to the
		referenced resource.
	Replaces	The described resource supplants,
		displaces, or supersedes the
		referenced resource.
	Demiliae	
	Requires	The described resource requires the
		referenced resource to support its
		function, delivery, or coherence of
		content.
Repeatability	"Relation" and all of its refinements are	e reneatable
Encoding	When specifying the language of the in	
Schemes	resource, the ISO639-2 three characte	er bibliographic language codes <b>must</b>
	be used.	
	ISO639-2 - http://www.loc.gov/standar	ds/iso639-2/englangn.html
Obligation	Relation	Optional
J	Conforms To	Optional
		Conditional
	Has Adaptation	Conditional
		If there exists an adapted version of
		the web resource in an alternative
		language, then "Has Adaptation" is
		mandatory and <b>must</b> be populated
		with the adapted version's title and
		location.
	Has Format	Conditional
		If the web resource is available in
		another format, then "Has Format" is
		mandatory. Use "Has Format" to
		indicate the location of the alternate
		format.
	Has Part	Optional
	Has Translation	Conditional
		If there exists a translated version of
		the web resource, then "Has
		Translation" is mandatory and <b>must</b>
		be populated with the translated
		version's title and location.
	Has Version	Optional
	Is Adaptation Of	Conditional
		If the web resource is an adaptation
		of another web resource in an
		alternative language then "Is
		Adaptation Of" is mandatory and
		must be populated with the source
		web resource's title and location.
	Is Format Of	Optional Optional
	Is Part Of	Optional
	Is Referenced By	Optional

LITAL	E	
	Requires	Optional
	Replaces	Optional
	References	Optional
	Is Version Of	Optional
		If the web resource is a translation of another web resource then "Is Translation Of" is mandatory and must be populated with the source web resource's title and location.
	Is Translation Of	Conditional
	Is Required By	Optional
	Is Replaced By	Optional

# HTML Examples

#### **HTML** For a web resource that has a related news release:

<meta name="dc.relation" content="News Release,
http://www.gov.on.ca/FIN/english/media/2004/nre9maple.htm" />

#### For a web resource that conforms to a known standard:

<meta name="dc.relation.conformsTo" content="GO-ITS 23.2
- World Wide Web - Content Standard" />

#### For an HTML web resource also available as an Adobe® PDF document:

<meta name="dc.relation.hasFormat"
content="http://www.gov.on.ca/FIN/english/economy/
statement04/04fs-eng.pdf" />

#### For a web resource also available in French:

<meta name="dc.relation.hasTranslation" lang="fre"
content="Loi sur l'accès à l'information et la
protection de la vie privée, http://www.elaws.gov.on.ca/DBLaws/Statutes/French/90f31 f.htm" />

#### For a web resource that is a French translation of an English web resource:

<meta name="dc.relation.isTranslationOf" lang="eng"
content="Freedom of Information and Protection of
Privacy Act, http://www.elaws.gov.on.ca/DBLaws/Statutes/English/90f31 e.htm" />

# For a web resource that makes reference to the Dublin Core Metadata Element Set:

<meta name="dc.relation.references" content="Dublin Core
Metadata Terms, http://dublincore.org/documents/dces/"
/>

#### For a web resource that replaces another existing resource:

<meta name="dc.relation.replaces" content="Web Metadata
Working Group Terms of Reference Version 1.1" />

# For a French adaptation of the Ontario Health and Physical Education Curriculum for Grades 1-8:

<meta name="dc.relation.isAdaptationOf" lang="eng"
content="Health and Physical Education, The Ontario
Curriculum, Grades 1-8, 1998,
http://www.edu.gov.on.ca/eng/document/curricul/
health/healthe.html" />

## 3.2.13 Coverage

Definition	The extent or scope	of the content of the resource	
Comments	The extent or scope of the content of the resource.  Coverage will typically include spatial location (a place name or		
Comments			
	geographic coordinates), temporal period (a period label, date, or date range) or jurisdiction (such as a named administrative entity).		
	range) or jurisdiction	(Such as a named administrative entity).	
	M/han anaifrina a ar	actial language areas are that the language records	
		patial location name, ensure that the location name is	
<b>5</b> (1)	as unambiguous as possible.		
Refinements	Jurisdiction	The name of the political or administrative body	
		covered by the content of the resource.	
	Spatial	Spatial coverage of the intellectual content of the	
		resource.	
	Temporal	Temporal coverage of the intellectual content of the	
		resource.	
Repeatability	"Jurisdiction", "Spatia	ıl" and "Temporal" are repeatable.	
Encoding		ate or date range, The World Wide Web	
Schemes	Consortium's profile (	("W3CDTF") of ISO 8601:2000 "Data Elements and	
	Interchange Formats	– Information Interchange – Representation of	
	Dates and Time" <b>must</b> be used –		
	http://www.w3.org/TF	R/NOTE-datetime	
Obligation	Coverage	N/A (Coverage <b>must</b> be refined)	
Jg	Jurisdiction	Optional	
	Spatial	Optional	
	Temporal	Optional	
HTML			
Examples	For a web resource whose content applies to the Province of Ontario: <pre><meta <="" name="dc.coverage.jurisdiction" pre=""/></pre>		
Liamples			
	content="Ontario, Canada" />		
	For a web resource whose content applies to the Region of Peel:		
		coverage.jurisdiction" content="Region	
	of Peel, Ontario		
	or reer, oncarro	, Canada //	
	For a web recovery whose content applies to the region lessons at the		
	For a web resource whose content applies to the region known as the Greater Toronto Area:		
		 coverage.spatial" content="Greater	
	Toronto Area" />		
	TOTOTICO ALEA //		
	For a web recourse w	whose content is about events that occurred between	
		d December 31 <sup>st</sup> , 2003:	
		coverage.temporal" scheme="W3CDTF"	
	content="2003-01-01/2003-12-31" />		
	For a web recourse w	whose content is about the time period known as	
	For a web resource whose content is about the time period known as		
	<pre>"The Renaissance":   <meta content="The&lt;/pre&gt;&lt;/th&gt;&lt;/tr&gt;&lt;tr&gt;&lt;th&gt;&lt;/th&gt;&lt;th&gt;Renaissance" name="dc.coverage.temporal"/></pre>		coverage.cemporar concent- ine
	rkenaissance"/>		

## 3.2.14 Rights

Definition	A statement or a pointer to a statement about rights held in and over the		
Comments	resource. Typically, a Rights element will contain a rights management statement for		
Comments	the resource, or reference a service providing such information. Rights		
	information often encompasses Intellectual Property Rights (IPR), Copyright,		
	and various Property Rights. If the Rights element is absent, no assumptions can be made about the status of these and other rights with respect to the		
	resource.	us of these and other rights with respect to the	
Refinements	Access Rights	Information about who can access the resource	
		or an indication of its security status. The value	
		of Access Rights could include the privileges of a group, a role or individuals.	
	Information Classification	The sensitivity value of the resource from the	
	Level	"Information Classification Policy".	
	Intellectual Property	Use to express trademark and/or patent and/or	
Repeatability	"Rights" <b>must</b> he refined wi	copyright notices as applicable. th "Access Rights", "Information Classification	
Repeatability	Level" or "Intellectual Prope		
	"Information Classification Level" is not repeatable.		
Encoding	"Access Rights" and "Intellectual Property" are repeatable.		
Schemes	For the "Information Classification Level" refinement, use the sensitivity values from the "Canadian Information Classification Schema" as described		
	by the "Information Security and Privacy Classification Policy" -		
	http://intra.security.gov.on.c	ca/resources/	
Obligation	Rights Access Rights	N/A (Rights <b>must</b> be refined) Optional	
	Information Classification	Conditional	
	Level		
		If the web resource has been assigned a	
		sensitivity level of "Low", "Medium" or "High" then "Information Classification Level" is	
		mandatory.	
	Intellectual Property	Mandatory	
HTML	For a web resource intended for Ontario Public Service staff only:		
Examples		s.accessRights" content="Restricted	
	to Ontario Public Service Employees" />		
	The copyright notice for a Government of Ontario web resource:		
		s.intellectualProperty"	
		<pre>ueen's Printer for Ontario, 2005, /MBS/english/common/queens.html" /&gt;</pre>	
	TICCP.//www.gov.on.ca	, ribo, engitan, common, queens.nemt //	
	For a web resource that has been assigned a value of "Low Sensitivity" from		
	the Canadian Information Classification Schema (CICS) as described by the		
	"Information Classification Policy": <meta <="" name="dc.rights.informationClassificationLevel" th=""/>		
	content="Low Sensiti		

## 3.2.15 Audience

Definition	A class of entity for whom	n the resource is intended or useful.
Comments	A class of entity may be determined by the creator or the publisher or by a	
	third party. When choosing a value from a controlled vocabulary, indicate	
	the name of the controlled vocabulary the value was selected from.	
Refinements	None	
Repeatability	"Audience" is repeatable.	
Encoding	The Government of Canada Audience Scheme is suggested but not	
Schemes	mandatory -	
	http://www.cio-dpi.gc.ca/im-gi/mwg-gtm/aud-	
	aud/docs/2003/schemfinal/schemfinal_e.asp	
Obligation	Audience	Optional
HTML	For a web resource inten-	ded for seniors:
Examples	<pre><meta content="Seniors" name="dcterms.audience"/></pre>	
•		
	For a web resource intended for persons looking for a job where the value	
	has been chosen from the Government of Canada Audience Scheme:	
	<pre><meta <="" name="dcterms.audience" pre="" scheme="gcaudience"/></pre>	
	content="job seeker	rs" />

## 3.2.16 *Mandate*

Definition	'	h requires the resource to be created or	
	provided.		
Comments	Use this element to indicate the specific legal mandate that requires the		
	resource being described	resource being described, to be created or provided to the public. The	
	content of this element should be a reference to a legal instrument such		
	as an Act, Regulation or Contract.		
Refinements	None		
Repeatability	"Mandate" is repeatable.		
Encoding	-		
Schemes			
Obligation	Mandate	Optional	
HTML	For a web resource that has been produced by order of an Act of		
Examples	Parliament:		
•	<pre><meta content="Automobile Insurance&lt;/pre&gt;&lt;/th&gt;&lt;/tr&gt;&lt;tr&gt;&lt;th&gt;&lt;/th&gt;&lt;th colspan=2&gt;Rate Stabilization Act, 2003" name="go.mandate"/></pre>		

## 3.2.17 Version

Definition	Number or name of the version, edition, release or revision of the web	
	resource.	
Comments	Branches, departments, program areas, project teams or individuals may	
	define their own web resource version numbering conventions.	
Refinements	-	
Repeatability	"Version" is not repeatable.	
Encoding	-	
Schemes		
Obligation	Version Optional	
HTML	For a web resource that is to be considered a draft version:	
Examples	<pre><meta <="" content="draft version 1.3.0" name="go.version" pre=""/></pre>	
	/>	
	For a web resource that is to be considered the final version:	
	<pre><meta content="Final Version" name="go.version"/></pre>	
	For the second edition of version 3.0 of a web resource :	
	<pre><meta content="Version 3.0, Second&lt;/pre&gt;&lt;/th&gt;&lt;/tr&gt;&lt;tr&gt;&lt;th&gt;&lt;/th&gt;&lt;th&gt;Edition" name="go.version"/></pre>	

## 3.2.18 Contact

Definition		anization to contact with questions or comments
	about the web resource.	
Comments	This element is intended for administrative purposes within the	
	Government of Ontar	
Refinements	Content	The individual or organization to contact with
		questions or comments about the intellectual
		content of the web resource.
	Technical	The individual or organization to contact with
		questions or comments about technical issues
		regarding the web resource.
Repeatability	"Contact" and all of its	s refinements are repeatable.
Encoding	When specifying an o	organizational hierarchy, start with the largest
Schemes	organizational level you wish to specify. When specifying an individual,	
	express the individual's name starting with their last name followed by a	
	comma, then their first name. An individual's job title may be included as	
	well following their name.	
Obligation	Contact	Optional
	Content	Optional
	Technical	Optional
HTML	The general contact f	
Examples	<meta content="Government of&lt;/th&gt;&lt;/tr&gt;&lt;tr&gt;&lt;th&gt;&lt;/th&gt;&lt;th&gt;Ontario, Managem&lt;/th&gt;&lt;th&gt;ment Board Secretariat, Office of the&lt;/th&gt;&lt;/tr&gt;&lt;tr&gt;&lt;th&gt;&lt;/th&gt;&lt;th&gt;&lt;/th&gt;&lt;th&gt;Information Officer, Office of the&lt;/th&gt;&lt;/tr&gt;&lt;tr&gt;&lt;th&gt;&lt;/th&gt;&lt;th&gt;&lt;/th&gt;&lt;th&gt;Strategist, E-Government Branch,&lt;/th&gt;&lt;/tr&gt;&lt;tr&gt;&lt;th&gt;&lt;/th&gt;&lt;th colspan=2&gt;eGov@mbs.gov.on.ca" name="go.c&lt;/th&gt;&lt;th&gt;contact"/>	
	For a web resource with an email address for technical support: <meta <="" name="go.contact.technical" th=""/>	
	content="support	regov.on.ca" />
	For a web resource w	vith an individual to contact with questions regarding
		nt of the web resource:
		ntact.content" content="Doe, John,
	John.Doe@gov.on.ca	

## 3.2.19 Records Retention Schedule ID

Definition	The unique identifier schedule.	used to identify the applicable records retention
Comments	Should identify the ministry, title and identification code for the applicable records retention schedule.	
	For guidance related to Records Retention Schedules, see the "Guidelines for the Ontario Government's Records Scheduling Program" - http://www.archives.gov.on.ca/english/rimdocs/guidlist.htm.	
Refinements	-	
Repeatability	"Records Retention Schedule ID" is not repeatable.	
Encoding Schemes	-	
Obligation	Records Retention Schedule ID	Conditional
		If the web resource being described has an applicable Records Retention Schedule, then "Records Retention Schedule ID" is Mandatory.
HTML	For a web resource following the Ministry of Labour's Employment	
Examples	Practices Branch Record Retention Schedule:	
	<pre><meta <="" name="go.recordsRetentionScheduleID" pre=""/></pre>	
	content="MOL-37R, Operations, Employment Practices	
	Branch, Ministry of Labour" />	

#### 3. Errata

Created: September 27, 2004

Updated: May 25, 2005

Page 5

The File Name was corrected to match the actual file name.

#### Page 9

Spelling for the word "Maintenance" was corrected.

#### Page 25

- The syntax in the examples was corrected ("dc" was appended to "type", i.e. "dc.type")
- o an extra colon (":") was removed from the end of the sentence "For a map posted...."

#### Page 27

The sentence "If the web resource being described does not have an identifier conforming to a formal identification system, the URI of the web resource must be used." was clarified to say "If the web resource being described does not have an identifier conforming to a formal identification system **other than a URI**, the URI of the web resource must be used." The reason for the change is that a URI **is** a formal identification system, therefore the original sentence was not precise.

#### Page 31

The last HTML example was missing the required URL and so it was added.

#### Page 33

The link to the Information Classification Policy was fixed and the name of the Policy was corrected (the policy has been renamed since the standard was presented to the ITSC and the link had changed)

## 4. Copyright

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#### 5. References

Archives of Ontario – Records Scheduling Guidelines: http://intra.archives.mbs.gov.on.ca/#scheduling

Digital Object Identifier (DOI) System: http://www.doi.org/index.html

Dublin Core Metadata Element Set (DCMES) Version 1.1: http://dublincore.org/documents/dces/

Dublin Core Metadata Initiative (DCMI): http://dublincore.org

DCMI Metadata Terms:

http://dublincore.org/documents/dcmi-terms/

Freedom of Information and Protection of Privacy Act: http://www.e-laws.gov.on.ca/DBLaws/Statutes/English/90f31\_e.htm

Government of Ontario Access and Privacy Office: http://www.gov.on.ca/MBS/english/fip

Government of Ontario Information Technology Standards: http://www.gov.on.ca/MBS/techstan/

Government Publication Directive:

http://intra.pmed.mbs.gov.on.ca/mbc/pdf/Government\_Publications.pdf

Information Classification Policy:

http://intra.security.gov.on.ca/resources/Info Classification Policy Dec 2003.doc

Internet Media Types (IMT) Scheme (also known as MIME types): http://www.iana.org/assignments/media-types/

International Standard Book Number (ISBN): http://www.isbn-international.org/

ISO Standard 639-2 (three character bibliographic language codes): http://www.loc.gov/standards/iso639-2/englangn.html

ISO Standard 15836-2003:

http://www.niso.org/international/SC4/n515.pdf

International Standard Serial Number (ISSN): http://www.issn.org:8080/pub/

NISO Standard Z39.85-2001:

http://www.niso.org/standards/resources/Z39-85.pdf

Obtaining an ISBN/ISSN for Ontario Government Publications & ISBN/ISSN Printing Instruction FAQ:

http://www.ontla.on.ca/library/isn/isnfaq.pdf

Uniform Resource Identifier: http://www.ietf.org/rfc/rfc2396.txt

The World Wide Web Consortium's profile of ISO 8601:2000 "Data Elements and Interchange Formats – Information Interchange – Representation of Dates and Time":

http://www.w3.org/TR/NOTE-datetime

### 6. Glossary of Terms

**Dublin Core Metadata Initiative (DCMI):** An open forum engaged in the development of interoperable online metadata standards that support a broad range of purposes and business models.

**Dublin Core Metadata Element Set (DCMES):** A set of 15 Metadata Elements developed by the Dublin Core Metadata Initiative.

**DCMI Metadata Terms:** All metadata terms maintained by the Dublin Core Metadata Initiative (DCMI) including metadata elements, element refinements, encoding schemes, and vocabulary terms.

**Element:** A property of a resource. "Properties" are attributes of web resources – characteristics that a web resource may "have", such as a Title, Creator or Subject.

**Encoding Scheme:** An Encoding Scheme provides contextual information or parsing rules that aid in the interpretation of an element or refinement's value. Such contextual information may take the form of controlled vocabularies, formal notations, or parsing rules.

Government of Ontario Web Metadata Element Set (GO-WMES): The common set of metadata elements and element refinements for describing Government of Ontario web resources. The GO-WMES is based on the Dublin Core Metadata Element Set and the DCMI Metadata Terms.

**Metadata:** Data that describes data and that enables collaboration and interoperability.

**Refinement:** An Element Refinement is a property of a resource that shares the meaning of a particular metadata element but with narrower semantics.

**Semantics:** Significance or meaning. In the case of Dublin Core, the significance or intended meaning of individual metadata elements and their components.

**Source Language:** The original language of a document before it is translated.

**Syntax Encoding Scheme:** Syntax Encoding Schemes indicate that the value is a string formatted in accordance with a formal notation, such as "2004-01-01" as the standard expression of a date.

**Target Language:** The language a document is to be or has been translated into.

**Uniform Resource Identifier (URI):** The generic term for all types of names and addresses that refer to objects on the World Wide Web. URIs include both URLs and URNs.

**Uniform Resource Locator (URL):** A unique address for a resource accessible on the World Wide Web. A URL consists of an access protocol and a server domain name and may also include the access path to a web resource found on the server. A URL is a type of Uniform Resource Identifier (URI).

**Uniform Resource Name (URN):** A URI that has some assurance of persistence beyond that normally associated with an Internet domain or host name. A URN is not location dependant.

**Vocabulary Encoding Scheme:** Vocabulary encoding schemes indicate that a metadata element or a refinement's value is a term from a controlled vocabulary, such as the value "Architectural Heritage" from the Government of Canada's Core Subject Thesaurus.

**Web Resource:** An information resource addressable via a Uniform Resource Locator (URL).