



## **Web Metadata Standard**

**Government of Ontario IT Standards (GO-ITS)**  
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### **OCCIO/OCCTO**

**MINISTRY OF GOVERNMENT SERVICES**  
**CORPORATE ARCHITECTURE AND STANDARDS 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 Ministry of Government Services' 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.

## Table of Contents

<b>1. Introduction .....</b>	<b>4</b>
1.1 Applicability .....	4
1.2 Requirement and Obligation Levels .....	4
1.3 Document Types and Filenames.....	5
1.4 Purpose of the Standard .....	5
1.5 Recommended Versioning and/or Change Management .....	6
1.6 Contact Information.....	6
1.7 Type of Standard.....	6
1.8 Acknowledgements.....	7
1.8.1 Development Team.....	7
1.8.2 Reviewers .....	8
1.9 Impacts to Standards .....	8
1.10 Impacts to Existing Environment .....	8
<b>2. The Web Metadata Standard .....</b>	<b>9</b>
2.1 The Dublin Core Metadata Initiative .....	9
2.2 Elements, Refinements and Encoding Schemes .....	10
2.3 HTML documents and meta tags .....	11
2.4 Guidance.....	12
2.5 Privacy .....	13
2.5.1 Personal Information.....	13
2.5.2 Government of Ontario Employee Names .....	13
<b>3. Government of Ontario Web Metadata Element Set (GO-WMES).....</b>	<b>14</b>
3.1 Summary.....	15
3.2 Full Description .....	16
<b>4. Errata .....</b>	<b>39</b>
<b>5. Copyright.....</b>	<b>39</b>
<b>6. References.....</b>	<b>40</b>
<b>7. Glossary of Terms .....</b>	<b>42</b>

## 1. 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.

Kindly refer to [http://intra.pmed.mbs.gov.on.ca/mbc/pdf/Agency\\_Establishment&Accountability-Dir.pdf](http://intra.pmed.mbs.gov.on.ca/mbc/pdf/Agency_Establishment&Accountability-Dir.pdf) for a list of provincial government agencies with their classification under the current classification system, as well as their previous Schedule under the former Schedule system.

### 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	Type
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

	<b>Contact 1</b>	<b>Contact 2</b>
<i>Name</i>	Andrew Lefrancq	David Tallan
<i>Organization/ Ministry</i>	Ministry of Government Services	Ministry of Government Services
<i>Division</i>	Office of the Corporate Chief Strategist	Office of the Corporate Chief Strategist
<i>Branch</i>	E-Government	E-Government
<i>Section/ Unit</i>	Portal Federation Operations	Portal Federation Operations
<i>Office Phone</i>	416-212-7001	416-327-2709
<i>E-mail</i>	andrew.lefrancq@mgs.gov.on.ca	david.tallan@mgs.gov.on.ca

## 1.7 Type of Standard

Select the appropriate category for this standard.

<b>Check One</b>	<b>Type of Standard</b>
<input type="checkbox"/>	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.).
<input checked="" type="checkbox"/>	Information Standard – specifications for a data format (e.g. XML schema, metadata, and/or related data models)
<input type="checkbox"/>	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.)
<input type="checkbox"/>	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.

<b>Check One</b>	<b><i>Publish as Internal or External</i></b>
<input type="checkbox"/>	Internal Standard
<input checked="" type="checkbox"/>	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

<b>Name</b>	<b>Cluster/Ministry</b>	<b>Branch</b>
Alana Boltwood	Ministry of Government Services	Corporate Architecture & Standards Branch
Andrew Lefrancq	Ministry of Government Services	E-Government Branch
Anita BeauSoleil	Ministry of Citizenship and Immigration	Accessibility Directorate of Ontario
Annemarie Toth-Waddell	Legislative Library of the Legislative Assembly of Ontario	Information Resources Branch
Beverly Betts	Ministry of Government Services	Customer Relations Branch, Shared Services Bureau
Brady Thompson	Community Services I&IT Cluster	Planning and Architecture
David Tallan	Ministry of Government Services	E-Government Branch
Denis Perreault	Ministry of Government Services	Government Translation Service
Don Macleod	Ministry of Government Services	Archives of Ontario
Heath Finley	Land and Resources Cluster/Ministry of Natural Resources	Information Resource Management Branch
Helena Slavik	Ministry of Municipal Affairs and Housing	Corporate Planning Branch
Jeannette Cournoyer	Ministry of Education and Ministry of Training, Colleges and Universities	Communications 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	Ministry of Government Services	E-Government Branch
Simon Loban	Ministry of Education and Ministry of Training, Colleges and Universities	Brian Fleming Research and Learning Library
Susanne Floresco	Ministry of Finance	Communications and Corporate Affairs Branch

**1.8.2 Reviewers**

Check	Area	Date: (month/year)
<input checked="" type="checkbox"/>	Technical Standards Unit, Corporate Architecture Branch, OCCTO	
<input type="checkbox"/>	Corporate Architecture Branch (CAB Architects), OCCTO	
<input type="checkbox"/>	Infrastructure Development Branch & iSERV, OCCSD	
<input checked="" type="checkbox"/>	Corporate Security Branch, OCCS Muriel Petersen	Oct 2004
<input checked="" type="checkbox"/>	I&IT Strategy, Policy & Planning Branch (SPPM, OCCS) 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
<input checked="" type="checkbox"/>	Corporate ACT and Domain Working Groups	
<input checked="" type="checkbox"/>	- Information Architecture Domain (IADWG)	Nov 2004
<input checked="" type="checkbox"/>	- Application Architecture Domain (AADWG)	Nov 2004
<input checked="" type="checkbox"/>	- Security Architecture Working Group (SAWG)	Nov 2004
<input type="checkbox"/>	Cluster ACT/ARB (for cluster standards promoted to corporate standards)	
<input checked="" type="checkbox"/>	ITSC members ( <i>provide name</i> ) Paul Scale	Nov 2004
<input checked="" type="checkbox"/>	Others ( <i>provide name</i> ): 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		

## 2. 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 interoperability.

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 `<keywords>` 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 `<keywords>` meta tag **must** be used. While "Subject" terms **must** be selected from a controlled vocabulary, `<keywords>` may include natural language or uncontrolled terms. However, the terms used to populate `<keywords>` **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 `<head>` 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 `<description>` 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 `<description>` 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 `<description>` meta tag **must** be used. The content of both the Dublin Core “Description” metadata element and the HTML `<description>` meta tag **must** 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 `<head>` 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](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.

### **3. 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 not 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 Refinements	Obligation				Repeatable?		
		M	C	O	N/A	Yes	No	N/A
1.	TITLE	M				Yes		
	Alternative			O		Yes		
2.	CREATOR	M				Yes		
3.	SUBJECT and KEYWORDS	M*	C*			Yes		
4.	DESCRIPTION	M				Yes		
5.	PUBLISHER	M				Yes		
6.	CONTRIBUTOR			O		Yes		
	<i>Editor</i>			O		Yes		
	<i>Page Designer</i>			O		Yes		
	<i>Illustrator</i>			O		Yes		
7.	DATE				N/A			N/A
	Available			O		Yes		
	Created	M					No	
	<i>Current As Of</i>			O		Yes		
	Date Accepted			O		Yes		
	Date Submitted			O		Yes		
	Issued		C				No	
	Modified		C			Yes		
	Valid			O		Yes		
8.	TYPE			O		Yes		
9.	FORMAT	M					No	
10.	IDENTIFIER	M				Yes		
11.	LANGUAGE	M				Yes		
12.	RELATION			O		Yes		
	Conforms To			O		Yes		
	<i>Has Adaptation</i>		C			Yes		
	Has Format		C			Yes		
	Has Part			O		Yes		
	<i>Has Translation</i>		C			Yes		
	Has Version			O		Yes		
	<i>Is Adaptation Of</i>		C			Yes		
	Is Format Of			O		Yes		
	Is Part Of			O		Yes		
	Is Referenced By			O		Yes		
	Is Replaced By			O		Yes		
	Is Required By			O		Yes		
	<i>Is Translation Of</i>		C			Yes		
	Is Version Of			O		Yes		
	References			O		Yes		
	Replaces			O		Yes		
	Requires			O		Yes		
13.	COVERAGE				N/A			N/A
	<i>Jurisdiction</i>			O		Yes		
	Spatial			O		Yes		
	Temporal			O		Yes		
14.	RIGHTS				N/A			N/A
	Access Rights			O		Yes		
	<i>Information Classification Level</i>		C				No	
	<i>Intellectual Property</i>	M				Yes		
15.	AUDIENCE			O		Yes		
16.	MANDATE			O		Yes		
17.	VERSION			O			No	
18.	CONTACT			O		Yes		
	<i>Content</i>			O		Yes		
	<i>Technical</i>			O		Yes		
19.	RECORDS RETENTION SCHEDULE ID		C				No	

\* "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

<b>Definition</b>	A statement that represents the concept and essential nature of an element.	
<b>Comments</b>	Additional information about an element or its application.	
<b>Refinements</b>	1 <sup>st</sup> Refinement Name	1 <sup>st</sup> Refinement Definition
	2 <sup>nd</sup> Refinement Name	2 <sup>nd</sup> Refinement Definition
	...	...
	n <sup>th</sup> Refinement Name	n <sup>th</sup> Refinement Definition
<b>Repeatability</b>	Whether or not the element or element refinement can be repeated for a single web resource.	
<b>Encoding Schemes</b>	Encoding Schemes include: <ol style="list-style-type: none"> <li>1. Syntax encoding schemes to be used to express and interpret an element's or an element refinement's value;</li> <li>2. Vocabulary encoding schemes to be used to select values for an element or an element refinement.</li> </ol>	
<b>Obligation</b>	The obligation level of an element and, if applicable, an element's refinements. Each element and refinement is mandatory, conditional or optional (see section 1.2 for definitions of mandatory, conditional and optional).	
<b>HTML Examples</b>	Examples of how the metadata should appear in the header of an HTML file.  When embedding GO-WMES elements in the <head> section of an 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".	

### 3.2.1 Title

<b>Definition</b>	A name given to the resource.	
<b>Comments</b>	Typically, a Title will be a name by which the resource is formally known. <i>If the resource being described is an HTML web page, then the content of "Title" <b>must</b> match the content of the HTML &lt;title&gt; tag.</i>	
<b>Refinements</b>	Alternative	Any form of the title used as a substitute or alternative to the formal title of the resource.
<b>Repeatability</b>	"Title" is repeatable when a single web resource has titles in more than one language. "Alternative" is repeatable.	
<b>Encoding Schemes</b>	Branches, departments, program areas or project teams may define their own web resource title formats.	
<b>Obligation</b>	Title	Mandatory
	Alternative	Optional
<b>HTML Examples</b>	<p>For the Government of Ontario's Central site:</p> <pre>&lt;title&gt;Government of Ontario, Canada: Home Page&lt;/title&gt; &lt;meta name="dc.title" content="Government of Ontario, Canada: Home Page" /&gt;</pre> <p>For a bilingual website's splash page with titles in both English and French:</p> <pre>&lt;title&gt;ONTERM Entry page/Page de garde d'ONTERM&lt;/title&gt; &lt;meta name="dc.title" content="ONTERM Entry page" /&gt; &lt;meta name="dc.title" content="Page de garde d'ONTERM" /&gt;</pre> <p>For a non-HTML web resource with the formal title "Defining Programs and Services in the Ontario Public Service" and a commonly known informal title:</p> <pre>&lt;meta name="dc.title" content="Defining Programs and Services in the Ontario Public Service" /&gt; &lt;meta name="dc.title.alternative" content="Service Definition Handbook" /&gt;</pre>	

### 3.2.2 Creator

<b>Definition</b>	An entity primarily responsible for making the content of the resource.	
<b>Comments</b>	<i>Specifies the organization, individual and/or system responsible for the creation of the resource.</i>	
<b>Refinements</b>	None	
<b>Repeatability</b>	"Creator" is repeatable.	
<b>Encoding Schemes</b>	When specifying an organizational hierarchy, start with the largest 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.	
<b>Obligation</b>	Creator	Mandatory
<b>HTML Examples</b>	<p>For a web resource created by the Highways and Business Services Application Solutions Branch of the Ministry of Transportation:  <code>&lt;meta name="dc.creator" content="Government of Ontario, Ministry of Transportation, Transportation I&amp;IT Cluster, Highways and Business Services Application Solutions Branch" /&gt;</code></p> <p>For a web resource created by the Veterinary Science branch of the Ministry of Agriculture and Food:  <code>&lt;meta name="dc.creator" content="Government of Ontario, Ministry of Agriculture and Food, Agriculture and Food Division, Livestock Technology, Veterinary Science" /&gt;</code></p> <p>For a web resource created by an individual named Jane Doe:  <code>&lt;meta name="dc.creator" content="Doe, Jane" /&gt;</code></p> <p>For a web resource created by an external consulting firm:  <code>&lt;meta name="dc.creator" content="GovConsultants Inc." /&gt;</code></p>	

### 3.2.3 Subject and Keywords

<b>Definition</b>	The topic of the content of the resource.	
<b>Comments</b>	<p>Typically, a Subject will be expressed as keywords, key phrases or classification codes that describe a topic of the resource.</p> <p><i>If the web resource being described is an HTML web page, then both the Dublin Core "Subject" metadata element and the HTML &lt;keywords&gt; meta tag <b>must</b> be used. &lt;keywords&gt; may include natural language terms that have not been selected from a controlled vocabulary but the terms used to populate &lt;keywords&gt; <b>must</b> at least include the controlled terms used to populate the Dublin Core "Subject" metadata element.</i></p>	
<b>Refinements</b>	None	
<b>Repeatability</b>	"Subject" and "Keywords" are repeatable.	
<b>Encoding Schemes</b>	Subject terms <b>must</b> be chosen from an approved controlled vocabulary.	
<b>Obligation</b>	Subject	Mandatory
	Keywords	Conditional
		If the web resource being described is an HTML web page, then "Keywords" is mandatory.
<b>HTML Examples</b>	<p>For an HTML web resource with multiple subject terms chosen from the "abc" controlled vocabulary:</p> <pre>&lt;meta name="dc.subject" scheme="abc" content="Tourism; Toronto; Ontario" /&gt; &lt;meta name="keywords" content="Tourism; Toronto; Ontario; Travelling; Visiting Toronto" /&gt;</pre> <p>For an HTML web resource with subjects chosen from multiple controlled vocabularies:</p> <pre>&lt;meta name="dc.subject" scheme="gccore" content="Nutrition; Vitamins; Cooking" /&gt; &lt;meta name="dc.subject" scheme="cv" content="Eating Right; Healthy Living" /&gt; &lt;meta name="keywords" content="Nutrition, Vitamins, Cooking, Eating Right, Healthy Living" /&gt;</pre>	

### 3.2.4 Description

<b>Definition</b>	An account of the content of the resource.	
<b>Comments</b>	<p>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.</p> <p><i>If the web resource being described is an HTML web page, then both the Dublin Core "Description" metadata element and the HTML &lt;description&gt; meta tag <b>must</b> be used. The content of both the Dublin Core "Description" metadata element and the HTML &lt;description&gt; meta tag <b>must</b> be equivalent.</i></p>	
<b>Refinements</b>	None	
<b>Repeatability</b>	"Description" is repeatable.	
<b>Encoding Schemes</b>	-	
<b>Obligation</b>	Description	Mandatory
<b>HTML Examples</b>	<p>For a description of the Government of Ontario's central website:</p> <pre>&lt;meta name="dc.description" content="The official home page of the Government of the Province of Ontario, Canada." /&gt; &lt;meta name="description" content="The official home page of the Government of the Province of Ontario, Canada." /&gt;</pre>	

### 3.2.5 Publisher

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

### 3.2.6 Contributor

<b>Definition</b>	An entity responsible for making contributions to the content of the resource.	
<b>Comments</b>	<i>Specifies organizations, groups or individuals that contributed to the web resource.</i>	
<b>Refinements</b>	<i>Editor</i>	<i>The organization, group or individual responsible for the revision of the web resource for the purposes of publication or public presentation.</i>
	<i>Page Designer</i>	<i>The individual responsible for designing a web page.</i>
	<i>Illustrator</i>	<i>The individual responsible for creating an image.</i>
<b>Repeatability</b>	"Contributor" and its refinements are repeatable.	
<b>Encoding Schemes</b>	When specifying an organizational hierarchy, start with the largest 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.	
<b>Obligation</b>	Contributor	Optional
	<i>Editor</i>	Optional
	<i>Page Designer</i>	Optional
	<i>Illustrator</i>	Optional
<b>HTML Examples</b>	<p>For a web resource that received input from, but was not created by, the Regional Economic Development Branch of the Ministry of Northern Development and Mines:  <code>&lt;meta name="dc.contributor" content="Government of Ontario, Ministry of Northern Development and Mines, Northern Development Division, Regional Economic Development Branch" /&gt;</code></p> <p>For a web resource that was edited by an individual:  <code>&lt;meta name="dc.contributor.editor" content="Smith, Jane" /&gt;</code></p> <p>For a webpage designed by an individual:  <code>&lt;meta name="dc.contributor.pageDesigner" content="Doe, John" /&gt;</code></p> <p>For images embedded in a web page that were created by the Communications and Marketing Branch of the Ministry of Community and Social Services:  <code>&lt;meta name="dc.contributor.illustrator" content="Government of Ontario, Ministry of Community and Social Services, Deputy Minister's Office, Communications and Marketing Branch" /&gt;</code></p>	

### 3.2.7 Date

<b>Definition</b>	A date associated with an event in the life cycle of the resource.	
<b>Comments</b>	Typically, Date will be associated with the creation or availability of the resource.	
<b>Refinements</b>	Available	Date (often a range) that the resource will become or did become available
	Created	Date of creation of the resource.
	<i>Current As Of</i>	<i>Date that the resource was last checked for validity.</i>
	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. <i>Use "Issued" to specify the date the web resource was first published on the web.</i>
	Modified	Date on which the resource was changed.
	Valid	Date (often a range) of validity of a resource.
<b>Repeatability</b>	"Date Created" and "Date Issued" are not repeatable. All other Date refinements are repeatable.	
<b>Encoding Schemes</b>	The World Wide Web 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 – <a href="http://www.w3.org/TR/NOTE-datetime">http://www.w3.org/TR/NOTE-datetime</a>	
<b>Obligation</b>	Date	N/A (Date <b>must</b> be refined)
	Available	Optional
	Created	Mandatory
	<i>Current As Of</i>	Optional
	Date Accepted	Optional
	Date Submitted	Optional
	Issued	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  If the web resource has been modified since the date it was first published on the web then "Modified" is mandatory.
	Valid	Optional

<b>HTML Examples</b>	<p>For a web resource created on September 17, 2004: &lt;meta name="dc.date.created" scheme="W3CDTF" content="2004-09-17" /&gt;</p> <p>For a web resource created on July 5, 2004 but first published to the web on July 10, 2004: &lt;meta name="dc.date.created" scheme="W3CDTF" content="2004-07-05" /&gt; &lt;meta name="dc.date.issued" scheme="W3CDTF" content="2004-07-10" /&gt;</p> <p>For the same resource later updated on August 28, 2004: &lt;meta name="dc.date.created" scheme="W3CDTF" content="2004-07-05" /&gt; &lt;meta name="dc.date.modified" scheme="W3CDTF" content="2004-08-28" /&gt;</p> <p>For a web resource valid between September 17, 2004 and September 17, 2005: &lt;meta name="dc.date.valid" scheme="W3CDTF" content="2004-09-17/2005-09-17" /&gt;</p> <p>For a web resource available on October 8, 2004 at 6:00 pm Eastern Standard Time (EST): &lt;meta name="dc.date.available" scheme="W3CDTF" content="2004-10-08T18:00-05:00" /&gt;</p> <p>For a web resource available on November 20, 2004 at 6:00 pm Eastern Daylight Time (EDT): &lt;meta name="dc.date.available" scheme="W3CDTF" content="2004-11-20T18:00-04:00" /&gt;</p>
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### 3.2.8 Type

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

### 3.2.9 Format

<b>Definition</b>	The physical or digital manifestation of the resource.	
<b>Comments</b>	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 ( <i>also known as MIME types</i> ) defining computer media formats.	
<b>Refinements</b>	None	
<b>Repeatability</b>	"Format" is not repeatable.	
<b>Encoding Schemes</b>	Internet Media Types (IMT) Scheme (also known as MIME types) - <a href="http://www.iana.org/assignments/media-types/">http://www.iana.org/assignments/media-types/</a>	
<b>Obligation</b>	Format	Mandatory
<b>HTML Examples</b>	<p>For an HTML web page:  <code>&lt;meta name="dc.format" scheme="IMT" content="text/html" /&gt;</code></p> <p>For an Adobe® PDF document posted on the web:  <code>&lt;meta name="dc.format" scheme="IMT" content="application/pdf" /&gt;</code></p> <p>For a Microsoft® Word document posted on the web:  <code>&lt;meta name="dc.format" scheme="IMT" content="application/msword" /&gt;</code></p>	

### 3.2.10 Identifier

<b>Definition</b>	An unambiguous reference to the resource within a given context.	
<b>Comments</b>	<p>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).</p> <p><i>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.</i></p> <p><i>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.</i></p> <p><i>Refer to the "Government Publications Directive" and the "Obtaining an ISBN/ISSN for Ontario Government Publications &amp; ISBN/ISSN Printing Instruction FAQ" for information on which documents require an ISBN or an ISSN and how to obtain them.</i></p> <p>Government Publication Directive -  <a href="http://intra.pmed.mbs.gov.on.ca/mbc/pdf/Government_Publications.pdf">http://intra.pmed.mbs.gov.on.ca/mbc/pdf/Government_Publications.pdf</a></p> <p>Obtaining an ISBN/ISSN for Ontario Government Publications &amp; ISBN/ISSN Printing Instruction FAQ -  <a href="http://www.ontla.on.ca/library/isn/isnfaq.pdf">http://www.ontla.on.ca/library/isn/isnfaq.pdf</a></p>	
<b>Refinements</b>	None	
<b>Repeatability</b>	"Identifier" is repeatable.	
<b>Encoding Schemes</b>	<p>URI – <a href="http://www.ietf.org/rfc/rfc2396.txt">http://www.ietf.org/rfc/rfc2396.txt</a>  ISBN – <a href="http://www.isbn-international.org/">http://www.isbn-international.org/</a>  ISSN – <a href="http://www.issn.org:8080/pub/">http://www.issn.org:8080/pub/</a>  DOI - <a href="http://www.doi.org/index.html">http://www.doi.org/index.html</a></p> <p>Other encoding schemes may be used as well, such as the native identifier encoding schemes used by Content Management Systems.</p>	
<b>Obligation</b>	Identifier	Mandatory
<b>HTML Examples</b>	<p>For an HTML web page:  &lt;meta name="dc.identifier" scheme="URI" content="http://www.gov.on.ca" /&gt;</p> <p>For a web resource that has been assigned an ISBN number:  &lt;meta name="dc.identifier" scheme="ISBN" content="0-123456-78-9" /&gt;</p>	

### 3.2.11 Language

<b>Definition</b>	A language of the intellectual content of the resource.	
<b>Comments</b>	<p><i>The ISO639-2 three character bibliographic language codes <b>must</b> be used.</i></p> <p><i>For a web resource in American Sign Language (ASL), use the code "sgn-US".</i></p> <p><i>For a web resource in La langue des signes québécoise (LSQ), use the code "sgn-CA-QC".</i></p>	
<b>Refinements</b>	None	
<b>Repeatability</b>	"Language" is repeatable when the web resource being described is multilingual.	
<b>Encoding Schemes</b>	ISO639-2 - <a href="http://www.loc.gov/standards/iso639-2/englangn.html">http://www.loc.gov/standards/iso639-2/englangn.html</a>	
<b>Obligation</b>	Language	Mandatory
<b>HTML Examples</b>	<p>For a web resource in English:  <code>&lt;meta name="dc.language" scheme="ISO639-2" content="eng" /&gt;</code></p> <p>For a web resource in French:  <code>&lt;meta name="dc.language" scheme="ISO639-2" content="fre" /&gt;</code></p> <p>For a web resource in both English and French:  <code>&lt;meta name="dc.language" scheme="ISO639-2" content="eng" /&gt;</code>  <code>&lt;meta name="dc.language" scheme="ISO639-2" content="fre" /&gt;</code></p>	

### 3.2.12 Relation

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

	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.
	References	The described resource references, cites, or otherwise points to the referenced resource.
	Replaces	The described resource supplants, displaces, or supersedes the referenced resource.
	Requires	The described resource requires the referenced resource to support its function, delivery, or coherence of content.
<b>Repeatability</b>	"Relation" and all of its refinements are repeatable.	
<b>Encoding Schemes</b>	When specifying the language of the intellectual content of a referenced resource, the ISO639-2 three character bibliographic language codes <b>must</b> be used. ISO639-2 - <a href="http://www.loc.gov/standards/iso639-2/englangn.html">http://www.loc.gov/standards/iso639-2/englangn.html</a>	
<b>Obligation</b>	Relation	Optional
	Conforms To	Optional
	<i>Has Adaptation</i>	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
	<i>Has Translation</i>	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
	<i>Is Adaptation Of</i>	Conditional  If the web resource is an adaptation of another web resource in an alternative language then "Is Adaptation Of" is mandatory and <b>must</b> be populated with the source web resource's title and location.
	Is Format Of	Optional
	Is Part Of	Optional
Is Referenced By	Optional	

	Is Replaced By	Optional
	Is Required By	Optional
	<i>Is Translation Of</i>	Conditional  If the web resource is a translation of another web resource then "Is Translation Of" is mandatory and <b>must</b> be populated with the source web resource's title and location.
	Is Version Of	Optional
	References	Optional
	Replaces	Optional
	Requires	Optional
<b>HTML Examples</b>	<p>For a web resource that has a related news release:  <code>&lt;meta name="dc.relation" content="News Release, http://www.gov.on.ca/FIN/english/media/2004/nre9-maple.htm" /&gt;</code></p> <p>For a web resource that conforms to a known standard:  <code>&lt;meta name="dc.relation.conformsTo" content="GO-ITS 23.2 - World Wide Web - Content Standard" /&gt;</code></p> <p>For an HTML web resource also available as an Adobe® PDF document:  <code>&lt;meta name="dc.relation.hasFormat" content="http://www.gov.on.ca/FIN/english/economy/statement04/04fs-eng.pdf" /&gt;</code></p> <p>For a web resource also available in French:  <code>&lt;meta name="dc.relation.hasTranslation" lang="fre" content="Loi sur l'accès à l'information et la protection de la vie privée, http://www.e-laws.gov.on.ca/DBLaws/Statutes/French/90f31_f.htm" /&gt;</code></p> <p>For a web resource that is a French translation of an English web resource:  <code>&lt;meta name="dc.relation.isTranslationOf" lang="eng" content="Freedom of Information and Protection of Privacy Act, http://www.e-laws.gov.on.ca/DBLaws/Statutes/English/90f31_e.htm" /&gt;</code></p> <p>For a web resource that makes reference to the Dublin Core Metadata Element Set:  <code>&lt;meta name="dc.relation.references" content="Dublin Core Metadata Terms, http://dublincore.org/documents/dces/" /&gt;</code></p> <p>For a web resource that replaces another existing resource:  <code>&lt;meta name="dc.relation.replaces" content="Web Metadata Working Group Terms of Reference Version 1.1" /&gt;</code></p> <p>For a French adaptation of the Ontario Health and Physical Education Curriculum for Grades 1-8:  <code>&lt;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" /&gt;</code></p>	

### 3.2.13 Coverage

<b>Definition</b>	The extent or scope of the content of the resource.	
<b>Comments</b>	<p>Coverage will typically include spatial location (a place name or geographic coordinates), temporal period (a period label, date, or date range) or jurisdiction (such as a named administrative entity).</p> <p><i>When specifying a spatial location name, ensure that the location name is as unambiguous as possible.</i></p>	
<b>Refinements</b>	<i>Jurisdiction</i>	<i>The name of the political or administrative body covered by the content of the resource.</i>
	Spatial	Spatial <i>coverage</i> of the intellectual content of the resource.
	Temporal	Temporal <i>coverage</i> of the intellectual content of the resource.
<b>Repeatability</b>	"Jurisdiction", "Spatial" and "Temporal" are repeatable.	
<b>Encoding Schemes</b>	<p>When specifying a date or date range, The World Wide Web 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 – <a href="http://www.w3.org/TR/NOTE-datetime">http://www.w3.org/TR/NOTE-datetime</a></p>	
<b>Obligation</b>	Coverage	N/A (Coverage <b>must</b> be refined)
	<i>Jurisdiction</i>	Optional
	Spatial	Optional
	Temporal	Optional
<b>HTML Examples</b>	<p>For a web resource whose content applies to the Province of Ontario:  <code>&lt;meta name="dc.coverage.jurisdiction" content="Ontario, Canada" /&gt;</code></p> <p>For a web resource whose content applies to the Region of Peel:  <code>&lt;meta name="dc.coverage.jurisdiction" content="Region of Peel, Ontario, Canada" /&gt;</code></p> <p>For a web resource whose content applies to the region known as the Greater Toronto Area:  <code>&lt;meta name="dc.coverage.spatial" content="Greater Toronto Area" /&gt;</code></p> <p>For a web resource whose content is about events that occurred between January 1<sup>st</sup>, 2003 and December 31<sup>st</sup>, 2003:  <code>&lt;meta name="dc.coverage.temporal" scheme="W3CDTF" content="2003-01-01/2003-12-31" /&gt;</code></p> <p>For a web resource whose content is about the time period known as "The Renaissance":  <code>&lt;meta name="dc.coverage.temporal" content="The Renaissance" /&gt;</code></p>	

### 3.2.14 Rights

<b>Definition</b>	A statement or a pointer to a statement about rights held in and over the resource.	
<b>Comments</b>	Typically, a Rights element will contain a rights management statement for 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.	
<b>Refinements</b>	Access Rights	Information about who can access the resource or an indication of its security status. <i>The value of Access Rights could include the privileges of a group, a role or individuals.</i>
	Information Classification Level	<i>The sensitivity value of the resource from the "Information Security and Privacy Classification Policy".</i>
	Intellectual Property	<i>Use to express trademark and/or patent and/or copyright notices as applicable.</i>
<b>Repeatability</b>	"Rights" <b>must</b> be refined with "Access Rights", "Information Classification Level" or "Intellectual Property". "Information Classification Level" is not repeatable. "Access Rights" and "Intellectual Property" are repeatable.	
<b>Encoding Schemes</b>	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" - <a href="http://intra.security.gov.on.ca/resources/">http://intra.security.gov.on.ca/resources/</a>	
<b>Obligation</b>	Rights	N/A (Rights <b>must</b> be refined)
	Access Rights	Optional
	Information Classification Level	Conditional  If the web resource has been assigned a sensitivity level of "Low", "Medium" or "High" then "Information Classification Level" is mandatory.
	Intellectual Property	Mandatory
<b>HTML Examples</b>	<p>For a web resource intended for Ontario Public Service staff only:  <code>&lt;meta name="dc.rights.accessRights" content="Restricted to Ontario Public Service Employees" /&gt;</code></p> <p>The copyright notice for a Government of Ontario web resource:  <code>&lt;meta name="dc.rights.intellectualProperty" content="Copyright Queen's Printer for Ontario, 2005, http://www.gov.on.ca/MBS/english/common/queens.html" /&gt;</code></p> <p>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 Security and Privacy Classification Policy":  <code>&lt;meta name="dc.rights.informationClassificationLevel" content="Low Sensitivity" /&gt;</code></p>	

### 3.2.15 Audience

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

**3.2.16 Mandate**

<b>Definition</b>	<i>A specific authority, which requires the resource to be created or provided.</i>	
<b>Comments</b>	<i>Use this element to indicate the specific legal mandate that requires the 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.</i>	
<b>Refinements</b>	None	
<b>Repeatability</b>	"Mandate" is repeatable.	
<b>Encoding Schemes</b>	-	
<b>Obligation</b>	<i>Mandate</i>	Optional
<b>HTML Examples</b>	For a web resource that has been produced by order of an Act of Parliament: <pre>&lt;meta name="go.mandate" content="Automobile Insurance Rate Stabilization Act, 2003" /&gt;</pre>	

**3.2.17 Version**

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

**3.2.18 Contact**

<b>Definition</b>	<i>The individual or organization to contact with questions or comments about the web resource.</i>	
<b>Comments</b>	<i>This element is intended for administrative purposes within the Government of Ontario.</i>	
<b>Refinements</b>	<i>Content</i>	<i>The individual or organization to contact with questions or comments about the intellectual content of the web resource.</i>
	<i>Technical</i>	<i>The individual or organization to contact with questions or comments about technical issues regarding the web resource.</i>
<b>Repeatability</b>	"Contact" and all of its refinements are repeatable.	
<b>Encoding Schemes</b>	When specifying an organizational hierarchy, start with the largest 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.	
<b>Obligation</b>	<i>Contact</i>	Optional
	<i>Content</i>	Optional
	<i>Technical</i>	Optional
<b>HTML Examples</b>	<p>The general contact for a web resource:  <code>&lt;meta name="go.contact" content="Government of Ontario, Ministry of Government Services, Office of the Corporate Chief Information Officer, Office of the Corporate Chief Strategist, E-Government Branch, eGov@mgs.gov.on.ca" /&gt;</code></p> <p>For a web resource with an email address for technical support:  <code>&lt;meta name="go.contact.technical content="support@gov.on.ca" /&gt;</code></p> <p>For a web resource with an individual to contact with questions regarding the intellectual content of the web resource:  <code>&lt;meta name="go.contact.content" content="Doe, John, John.Doe@gov.on.ca" /&gt;</code></p>	

### 3.2.19 Records Retention Schedule ID

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

## 4. Errata

Created: September 27, 2004

Updated: October 20, 2005

### Page 28

Language scheme in the examples was corrected (ISO639-2)

### Page 33 and Page 40

The name of the Information Security and Privacy Classification Policy was updated.

Corrections made 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")
- 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)

## 5. Copyright

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## 6. 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](http://www.e-laws.gov.on.ca/DBLaws/Statutes/English/90f31_e.htm)

Government of Ontario Access and Privacy Office:

<http://www.accessandprivacy.gov.on.ca/index.html>

Government of Ontario Information Technology Standards:

<http://www.itstandards.gov.on.ca/>

Government Publication Directive:

[http://intra.pmed.mbs.gov.on.ca/mbc/pdf/Government\\_Publications.pdf](http://intra.pmed.mbs.gov.on.ca/mbc/pdf/Government_Publications.pdf)

Information Security and Privacy Classification Policy:

<http://intra.security.gov.on.ca/resources/>

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>

## 7. 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).