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## Canada Directory User Manual

Version 2006.3

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really  
smart  
spatial  
solutions™

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## Table of Contents

<b>ABOUT DMTI SPATIAL™</b>	<b>1</b>
Really Smart Spatial Solutions™	2
DMTI Spatial™ Product & Service Portfolio	2
Error Reporting & Wish List Services	3
Contact Information	3
Trademarks and Notices	3
<b>ABOUT THE CANADA DIRECTORY V2006.3</b>	<b>4</b>
Layer Properties	4
Layer Naming Conventions	4
Layer Contents	4
<b>USING THE CANADA DIRECTORY V2006.3</b>	<b>5</b>
Viewing DMTI Spatial Products	5
Viewing the Canada Directory	5
Suggested Layering for the Canada Directory	5
<b>DATA DICTIONARY</b>	<b>6</b>
Area Code Boundaries (acb)	6
Layer Location	6
Layer Structure	6
Layer Content	6
Capital Cities (cap)	7
Layer Location	7
Layer Structure	7
Layer Content	7
Provincial Boundaries (prv)	8
Layer Location	8
Layer Structure	8
Layer Content	8
Regional Municipality Boundaries (rmn)	9
Layer Location	9
Layer Structure	9
Layer Content	9
Field Content	9
Topographic Coverage Areas (top)	10
Layer Location	10
Layer Structure	10
Layer Content	10
Time Zones – Standard Time (tzs) / Daylight Savings Time (tzd)	11
Layer Location	11
Layer Structure	11
Layer Content	11
National Water (wat)	12
Layer Location	12
Layer Structure	12
Layer Content	12
<b>APPENDIX A: ESRI® FILE EXTENSIONS</b>	<b>13</b>
<b>APPENDIX B: MAPINFO® PROFESSIONAL FILE EXTENSIONS</b>	<b>14</b>
<b>APPENDIX C: PROVINCIAL AND TERRITORIAL ABBREVIATIONS AND CODES</b>	<b>15</b>
<b>APPENDIX D: CANADIAN URBAN AREAS AND ABBREVIATIONS</b>	<b>16</b>

<b>APPENDIX E: EXCEPTIONS TO OFFICIAL TIME IN CANADA .....</b>	<b>17</b>
<b>APPENDIX F: UNSHORELINED VS. SHORELINED BOUNDARIES.....</b>	<b>19</b>
<b>APPENDIX G: ISO 19115:2003 COMPLIANT METADATA .....</b>	<b>20</b>
<i>Metadata Notification .....</i>	<i>20</i>

## About DMTI Spatial™

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DMTI Spatial Inc. is Canada's leading spatial solutions provider. We enable users to understand their customers, optimize resources, realize opportunities, maximize profitability and make more informed decisions through accurate products and innovative thinking.

DMTI Spatial publishes precision built street map, rail and routing data (CanMap®), a detailed water layer, and innovative geocoding and address management software (GeoPinpoint™). In addition, DMTI Spatial publishes a full range of positionally accurate geospatial data products including: enhanced points of interest (EPOI), census data and boundaries, postal geography, topographic maps, and US mapping data. As part of a complete business geographic solution, DMTI Spatial offers a wide range of GIS services, consulting, and software training.

Established in 1994, DMTI Spatial is committed to setting the standard within the GIS industry for precision built spatial data and geocoding software products.

At DMTI Spatial, we believe that our true strength comes from working closely with our customers and providing innovative solutions to meet their strategic business objectives. As Canada's premier spatial solutions provider we pride ourselves with having worked with North America's leading organizations to support their mission critical applications.

DMTI Spatial works with large and small organizations representative of a wide variety of industries:

- Agriculture
- Banking/Finance
- Consulting
- Education
- Emergency Services
- Engineering
- Environmental
- Forestry
- Government
- Health
- High Technology
- Insurance
- Manufacturing
- Media
- Mining
- Real Estate
- Retail
- Telecommunications
- Transportation
- Utilities

We are a member of the ESRI Canada Business Partner Program, and winner of the 2001 ESRI Worldwide New Business Partner of the Year Award and the 2005 ESRI Foundation Partner of the Year Award. We are a strategic business partner of MapInfo and winner of the Markham Board of Trade 2000 Award for Entrepreneurship and Innovation. Recipient of The Association of Canadian Map Libraries and Archives (ACMLA) 2002 Certificate of Appreciation.



## Really Smart Spatial Solutions™

Through the application of its products and services, DMTI Spatial has been involved with projects such as: location-based services, logistics planning, emergency dispatch, facilities management, data management, customer care, address management, land base development in support of network planning, and marketing/demographic analysis applications.

DMTI Spatial can provide all of the components necessary for the acquisition, implementation, operation and maintenance of a successful GIS system within companies of all sizes. Through its product and service offering, DMTI Spatial can provide users with 5 key components:

1. Accurate, detailed, and compatible data
2. Comprehensive maintenance program
3. GIS software
4. Consulting and services
5. Software training

## DMTI Spatial™ Product & Service Portfolio

DMTI Spatial's product & service offering includes:

### **CanMap® - Digital Map Data for Canada**

- CanMap® Streetfiles
- CanMap® RouteLogistics
- CanMap® Rail
- CanMap® Major Roads and Highways
- CanMap® Parks & Recreation
- CanMap® Water

### **Satellite Imagery**

- Satellite StreetView™

### **Municipal Amalgamations**

- CanMap® Municipality Amalgamation File (MAF)

### **Business & Recreational Points of Interest**

- Enhanced Points Of Interest (EPOI)

### **GeoPinpoint™ Suite**

- Canada's Geocoding Solution
- Modular Architecture
- Windows Standalone Desktop Version
- UNIX, Java Wrapper, ActiveX (DLL Version)

### **Topographic Data and Base Maps**

- Canadian Atlas Map Bundle (CAMB)
- Populated Placenames
- National Topographic Data Base (NTDB)
- 30 & 90m Digital Elevation Models (DEM)
- Clutter Data

### **Postal Geography & Data**

- Six-Digit Postal Code File (LDU)
- Enhanced Postal Code File (MEP)
- Forward Sortation Areas (FSA) Boundary File

### **1996 Census Boundaries & Demographic Data**

- Enumeration Area (EA)
- Census Subdivision (CSD)
- Census Division (CD)
- Census Metropolitan Area/Census Agglomeration (CMA/CA)
- Census Tract (CT)
- Federal Electoral Districts (FED)

### **2001 Census Boundaries**

- Dissemination Area (DA)
- Census Subdivision (CSD)
- Census Division (CD)
- Census Metropolitan Area/Census Agglomeration (CMA/CA)
- Census Tract (CT)
- Federal Electoral Districts (FED)

### **GIS Software**

- Contour Modeling and Display
- Demographic Profiling and Lifestyle Targeting
- Geocoding and Mapping Software
- Routing and Logistics

### **Consulting and Services**

- Application Development
- Database Marketing
- Data Conversion and Creation
- Database Scrubbing
- Geocoding Services
- GIS Consulting
- Technical Support

## Error Reporting & Wish List Services

DMTI Spatial is committed to building the best products possible for our customers. By using our data every day in your mission critical application you are our best product tester. Please let us know if you have found an error in any of our products so that we can make the correction for the next release.

This is your opportunity to provide feedback directly to the DMTI Spatial Product Development Team. Please be as specific as possible so that we can improve our products quickly and accurately. To access the Error Reporting Web page please visit: <http://www.dmtispatial.com/feedback.htm> or send an e-mail to: [fixme@dmtdispatial.com](mailto:fixme@dmtdispatial.com)

If you have an idea for a new product or an existing product enhancement, please submit your ideas to the Wish List Web page: [http://www.dmtispatial.com/wish\\_list.htm](http://www.dmtispatial.com/wish_list.htm) or send an e-mail to: [wishlist@dmtdispatial.com](mailto:wishlist@dmtdispatial.com)

Over the coming months DMTI Spatial will keep you informed of new product releases, enhancements and strategic alliances. Our goal is to provide you with powerful knowledge based tools to help you attain and maintain your competitive advantage.

## Contact Information

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## Trademarks and Notices

© **2006** DMTI Spatial Inc. CanMap is a registered trademark of DMTI Spatial Inc. DMTI Spatial, Really Smart Spatial Solutions, Because Where Is What Matters, and GeoPinpoint are trademarks of DMTI Spatial Inc. All rights reserved. Other products and company names mentioned herein may be trademarks of their respective companies. Mention of third-party products is for informational purposes only and constitutes neither a recommendation nor an endorsement.

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## About the Canada Directory v2006.3

### Layer Properties

Property	Description
Coverage	National
Currency	August 15, 2006
Level of Accuracy	Ranging from the National Topographic Data Base (NTDB) standard to sub-meter accuracy
File Size	100 MB to 215 MB depending on GIS format
Projection	All layers are displayed as unprojected Longitude-Latitude
Datum	All layers are in NAD83 datum
Format	ESRI and MapInfo <sup>1</sup>

### Layer Naming Conventions

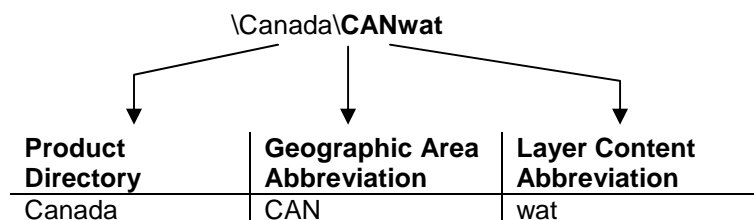
The Canada Directory is organized into the following directory structure:

Directory Name	Description
Canada	Canada Directory

Layers in the Canada Directory use the following naming conventions:

Geographic Area Abbreviation + Layer Content Abbreviation

example:



### Layer Contents

The Canada Directory consists of the following layers:

Layer Name	Description	Feature Type
CANacb	Area Code Boundaries	Polygon
CANcap	Capital Cities	Points
CANprv	Provincial/Territorial Boundaries	Polygon
CANrmn	Regional Municipality Boundaries	Polygon
CANtop	Topographic Coverage Areas	Polygon
CANtzd	Time Zones (Daylight Savings Time)	Polygon
CANtzs	Time Zones (Standard Time)	Polygon
CANwat	National Water	Polygon

For more information regarding these layers refer to the Data Dictionary section of this manual.

<sup>1</sup> Custom formats available upon request. Refer to Appendix A: ESRI File Extensions and Appendix B: MapInfo File Extensions for more information regarding file extensions.

## Using the Canada Directory v2006.3

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### Viewing DMTI Spatial Products

Packaged with DMTI Spatial products are several custom viewing files for MapInfo® Professional, ESRI® ArcView® GIS and ESRI® ArcGIS®.

Software	Extension	Version Support
MapInfo Professional	*.wor	Version 4.5 and higher
ESRI ArcView GIS	*.apr	Version 3.0 and higher
ESRI ArcGIS	*.mxd	Version 8.1 and higher

Located in the product directory, these viewing files have been provided to maximize the ease of use of DMTI Spatial products by intelligently layering various data layers and displaying them based on appropriate viewing scales.

### Viewing the Canada Directory

If you wish to view the Canada Directory layers with the provided workspaces or project files, the displayed layers include:

Layer Name	Description
CANcap	Capital Cities
CANprv	Provincial/Territorial Boundaries
CANwat	National Water

Layers that are not displayed as part of the Canada workspace or project file include:

Layer Name	Description
CANacb	Area Code Boundaries
CANrmn	Regional Municipality Boundaries
CANtop	Topographic Coverage Areas
CANTzd	Time Zones (Daylight Savings Time)
CANTzs	Time Zones (Standard Time)

### Suggested Layering for the Canada Directory

If you wish to view Canada Directory layers without the provided workspaces or project files, DMTI Spatial recommends using the following layering system to properly view the Canada Directory.

Layer Name	Description
CANcap	Capital Cities
CANwat	National Water
CANprv	Provincial/Territorial Boundaries

For example, when viewing DMTI Spatial boundary layers, the national water layer should be placed above any DMTI boundary layer.



## Data Dictionary

### Area Code Boundaries (acb)



#### Layer Location

\\Canada\CANacb

#### Layer Structure

Field Name	Field Type	Field Size	Description
AREA_CODE	Character	8	Area Code
AREA_PROV	Character	8	Provincial/Territorial Abbreviation. Records may contain multiple abbreviations where area codes are shared between provinces or territories.

#### Layer Content

Based on CanMap Municipality Boundaries, area code boundaries represent Canadian telephone area codes. In the North American telephone system, an area code is a three-digit code delineating a “toll” and is distributed according to the North American Number Plan (NANP). An area code is also referred to as a Number Plan Area or NPA.<sup>1</sup>

Province	Area Code
AB	403
AB	780
BC	250
BC	604/778
MB	204
NB	506
NL	709
NS/PE	902
ON	416/647
ON	519

Province	Area Code
ON	613
ON	705
ON	807
ON	905/289
QC	418
QC	450
QC	514
QC	819
SK	306
YT/NT/NU	867

<sup>1</sup> Source: North American Numbering Plan Administration, September 2003

## Data Dictionary (*cont'd*)

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### Capital Cities (cap)



#### Layer Location

\\Canada\CANcap

#### Layer Structure

Field Name	Field Type	Field Size	Description
NAME	Character	68	Name of City
PROV	Character	2	Provincial/Territorial Abbreviation

#### Layer Content

Derived from CanMap Populated Placenames, capital cities represent all provincial and territorial capital cities and the national capital city.

## Data Dictionary (*cont'd*)

---

### Provincial Boundaries (prv)



#### Layer Location

\\Canada\CANprv

#### Layer Structure

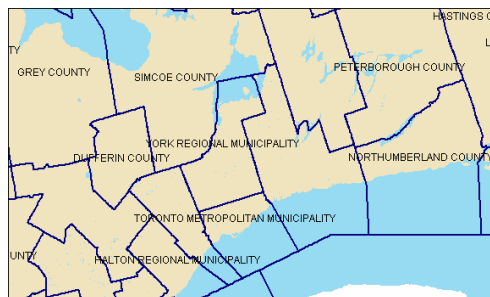
Field Name	Field Type	Field Size	Description
NAME	Character	25	Provincial/Territorial Name
PROV	Character	2	Provincial/Territorial Abbreviation

#### Layer Content

The Provinces layer is comprised of the 10 Provinces and 3 Territories that define Canada for political administrative purposes. DMTI Spatial Provinces and Territories correspond to Statistics Canada 2001 Provinces and Territories (PR)

## Data Dictionary (*cont'd*)

### Regional Municipality Boundaries (rmn)



#### Layer Location

\\Canada\CANrmn

#### Layer Structure

Field Name	Field Type	Field Size	Description
NAME	Character	46	Census Division Name
PROV	Character	2	Provincial/Territorial Abbreviation

#### Layer Content

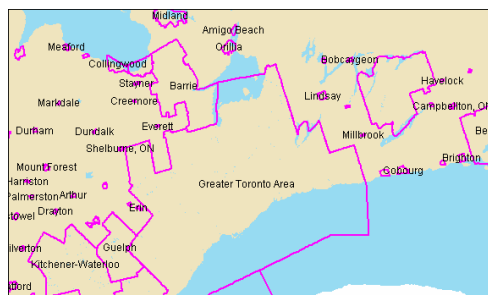
The Regional Municipalities layer is comprised of intermediate political administrative areas between the Province/Territories and Municipalities. DMTI Spatial Regional Municipalities correspond to Statistics Canada 2001 Census Divisions (CD).

#### Field Content

Type	Description
CTY	County
CU	Communauté urbaine
DIS	District
DIV	Census Division
DM	District Municipality
MRC	Municipalité régionale de comté
RD	Regional District
REG	Region
RM	Regional Municipality
TER	Territory
UC	United Counties

## Data Dictionary (cont'd)

### Topographic Coverage Areas (top)



#### Layer Location

\\Canada\CANtop

#### Layer Structure

Field Name	Field Type	Field Size	Description
NAME	Character	68	Topographic Coverage Area Name <sup>1</sup>
NAME_ABBR	Character	5	Topographic Coverage Area Abbreviation
PROV	Character	2	Provincial/Territorial Abbreviation

#### Layer Content

Topographic coverage areas represent areas across Canada where DMTI provides topographic data. Topographic data includes general land-use classifications, building footprints, transportation and utility features, hydrographical features, and physiographical features. Currently there are over 700 topographic coverage areas across the country.

<sup>1</sup> Refer to Appendix D: Canadian Urban Areas and Abbreviations for more information.

## Data Dictionary (*cont'd*)

### Time Zones – Standard Time (tzs) / Daylight Savings Time (tzd)



#### Layer Location

\\Canada\CANTzs  
\\Canada\CANTzd

#### Layer Structure

Field Name	Field Type	Field Size	Description
ZONE_NAME	Character	30	Time Zone Name
ZONE_ABBR	Character	3	Time Zone Abbreviation
DEVFROMUTC	Character	5	The difference in hours from Coordinated Universal Time (UTC) or Greenwich Mean Time (GMT)

#### Layer Content

Canada has six time zones, which are regulated by provincial and territorial governments. In each time zone Standard or Daylight Saving time might be specified. For example, in Ontario, Eastern Standard Time is denoted as Coordinated Universal Time ("UTC") less 6 hours or Eastern Daylight Time as UTC – 4h. In most regions in Canada, Daylight Savings Time begins on the first Sunday of April and ends on the last Sunday of October.

In some parts of Canada, observed time practice differs from official legislated time. The time zones in DMTI Spatial's time zone data are derived from provincial and territorial legislation and regulations that were in effect as of April 1, 2001 (Legislated Time Zones).<sup>1</sup>

<sup>1</sup> Refer to Appendix E: Exceptions to Official Time in Canada for more information.

## Data Dictionary (*cont'd*)

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### National Water (wat)



#### Layer Location

\\Canada\CANwat

#### Layer Structure

Field Name	Field Type	Field Size	Description
NAME	Character	40	Lake/River Name

#### Layer Content

The national water layer contains generalized major water bodies derived from a variety of sources at scales ranging from 1:50 000 to 1:30 000 000.<sup>1</sup>

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<sup>1</sup> For more information refer to Appendix F: Unshorelined and Shorelined Boundaries

## Appendix A: ESRI® File Extensions

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Refer to the following table for descriptions of ESRI file extensions. All file extensions are not available for all DMTI products.

File Extension	ArcView	ArcGIS	Both	File Description
*.shp			x	Part of standard ESRI Shapefile
*.shx			x	Part of standard ESRI Shapefile
*.dbf			x	Part of standard ESRI Shapefile
*.aih	x			Part of Attribute Index
*.ain	x			Part of Attribute Index
*.sbn			x	Part of Spatial Index
*.sbx			x	Part of Spatial Index
*.avl	x			Legend Properties
*.lyr		x		Layer Properties
*.prj		x		Datum and Projection Properties
*.apr	x			ArcView Project file
*.mxd		x		ArcGIS Project file



## Appendix B: MapInfo® Professional File Extensions

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Refer to the following table for descriptions of MapInfo file extensions.

File Extension	File Description
*.dat	Attribute Data
*.id	Graphic Index
*.ind	Attribute Index
*.map	Graphic Data
*.tab	Tab File
*.wor	Workspace

## Appendix C: Provincial and Territorial Abbreviations and Codes<sup>1</sup>

The provincial/territorial names, abbreviations and numeric codes reflect those in effect on January 1, 2001 with the exception of the name change of the province of Newfoundland and Labrador (previously Newfoundland), which came into effect on December 6, 2001. Newfoundland and Labrador was recognized by the alpha code NL (formerly NF). There were no changes to the numeric code (10) and abbreviations for Newfoundland and Labrador.

On April 1, 1999 the Northwest Territories was divided into two territories to create Nunavut Territory. The province/territory numeric code for Nunavut is 62 whereas the code for the Northwest Territories remained at 61. On December 18, 2000, Canada Post has introduced a new alpha code (NU) for Nunavut.

Province/Territory (English)	Province/Territory (French)	Abbreviation <sup>2</sup>	Numeric Code
Alberta	Alberta	AB	48
British Columbia	Colombie-Britannique	BC	59
Manitoba	Manitoba	MB	46
New Brunswick	Nouveau-Brunswick	NB	13
Newfoundland and Labrador	Terre-Neuve-et-Labrador	NL	10
Nova Scotia	Nouvelle-Écosse	NS	61
Northwest Territories	Territoires du Nord-Ouest	NT	12
Nunavut	Nunavut	NU	62
Ontario	Ontario	ON	35
Prince Edward Island	Île-du-Prince-Édouard	PE	11
Québec	Québec	QC	24
Saskatchewan	Saskatchewan	SK	47
Yukon	Yukon	YT	60

<sup>1</sup> Source: Statistics Canada, Standard Geographical Classification (SGC), 2001

<sup>2</sup> Source: Canada Post Corporation, The Canadian Addressing Guide, October 2002

## Appendix D: Canadian Urban Areas and Abbreviations

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Canadian urban areas are based upon DMTI's topographic coverage areas. The following table is a partial list of urban areas and their abbreviations. For a complete listing of Canadian urban areas refer to the CANtop layer located in the Canada Directory or for information regarding other areas please contact DMTI Spatial.

Province	Topographic Coverage Area	Abbreviation
AB	Calgary	CLGRY
AB	Edmonton	EDMNT
BC	Vancouver	VNCVR
BC	Victoria	VCTRA
MB	Winnipeg	WINPG
NB	Fredericton	FRDTN
NB	Saint John	STJON
NL	Labrador City	LBDRC
NL	St. John's	STJHN
NS	Halifax	HALFX
NT	Yellowknife	YLKNF
NU	Iqaluit	IQALT
ON	Greater Toronto Area	GTA
ON	Hamilton Niagara	HAMNG
ON	Ottawa	OTAWA
PE	Charlottetown	CHLTN
QC	Hull	HULL
QC	Montreal	MNTRL
QC	Quebec City	QBCTY
SK	Regina	RGNA
YT	Whitehorse	WTHRS

## Appendix E: Exceptions to Official Time in Canada<sup>1</sup>

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In some parts of Canada, observed time practice differs from official time. The following is a list of regions in Canada and the time practices that they observe.

### British Columbia

- Boundary: British Columbia, with exceptions
  - Pacific Standard Time (PST): UTC - 8h
  - Pacific Daylight Time (PDT): UTC - 7h
  - PDT: from 2:00 PST on the first Sunday of April to 2:00 PDT on the last Sunday of October, the period of DST must be gazetted each year.
- British Columbia Exceptions - Municipalities using Mountain Standard and Mountain Daylight Time:
  - Parts of Central Kootenay
  - Parts of Columbia-Shuswap
  - Parts of East Kootenay including all of Cranbrook
  - All of Kootenay-Boundary
  - All of Peace River

### Nunavut Territory

- Boundary: Nunavut east of 85° W longitude; except Southampton Island and the “islands near Southampton Island”.
  - Eastern Daylight Time (EDT): UTC - 4h
  - EDT: from 2:00 EST on the first Sunday of April to 2:00 EDT on the last Sunday of October
- Boundary: Nunavut’s Southampton Island and the “islands near Southampton Island”
  - Eastern Standard Time (EST): UTC - 5h
- Boundary: Nunavut west of 85° W longitude and east of 102° W longitude; except Southampton Island, “the islands near Southampton Island”, and the “Kitikmeot Region”
  - Central Standard Time (CST): UTC - 6h
  - Central Daylight Time (CDT): UTC - 5h
  - CDT: from 2:00 CST on the first Sunday of April to 2:00 CDT on the last Sunday of October
- Boundary: Nunavut west of 102° W longitude; (and all of the “Kitikmeot Region”)
  - Mountain Standard Time (MST): UTC - 6h
  - Mountain Daylight Time (MDT): UTC - 5h
  - MDT: from 2:00 MST on the first Sunday of April to 2:00 MDT on the last Sunday of October

### Ontario

- Boundary: Ontario east of 90° W longitude
  - Eastern Standard Time (EST): UTC - 5h
  - Eastern Daylight Time (EDT): UTC - 4h
  - EDT: from 2:00 EST on the first Sunday of April to 2:00 EDT on the last Sunday of October
- Boundary: Ontario west of 90° W longitude
  - Central Standard Time (CST): UTC - 6h
  - Central Daylight Time (EDT): UTC - 5h
  - CDT: from 2:00 CST on the first Sunday of April to 2:00 CDT on the last Sunday of October

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<sup>1</sup> Source: National Research Council (NRC), April 2001

**Quebec**

- Boundary: Quebec east of 63° W longitude
  - Atlantic Standard Time (AST): Coordinated Universal Time ("UTC") - 4h
  - In effect year-round
- Boundary: Quebec west of 63° W longitude
  - Eastern Standard Time (EST): UTC - 5h
  - Eastern Daylight Time (EDT): UTC - 4h
  - EDT: from 2:00 EST on the first Sunday of April to 2:00 EDT on the last Sunday of October

**Saskatchewan**

- Boundary: the Battle River district (around Lloydminster, in 1983 the Payton time option area was created, it uses CST year-round)
  - Central Standard Time (CST): UTC - 6h
  - CST: from 2:00 MST on the first Sunday of April to 2:00 CST on the last Sunday of October
- Boundary: Saskatchewan side of Lloydminster
  - Mountain Standard Time (MST): UTC - 7h
  - Mountain Daylight Time (MDT): UTC - 6h
  - MDT: from 2:00 MST on the first Sunday of April to 2:00 MDT on the last Sunday of October

**Yukon Territory**

- Pacific\* Standard Time (PST): UTC - 8h
- Pacific\* Daylight Time (PDT): UTC - 7h
- PDT: from 2:00 PST on the first Sunday of April to 2:00 PDT on the last Sunday of October

\* Yukon regulations refer to this as "Yukon" rather than Pacific time. Federal legislation (the Interpretation Act) still specifies Yukon time as one hour west of Pacific time. Using "Pacific" avoids this legislative ambiguity.

## Appendix F: Unshorelined vs. Shorelined Boundaries

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### National Water Layer

DMTI Spatial's standard boundaries are referred to as unshorelined boundaries. Unshorelined boundaries suggest that the boundary does not reflect physical shorelines.



Not recommended: "Unshorelined" boundaries with the national water (CANwat) layer beneath the boundary layer.

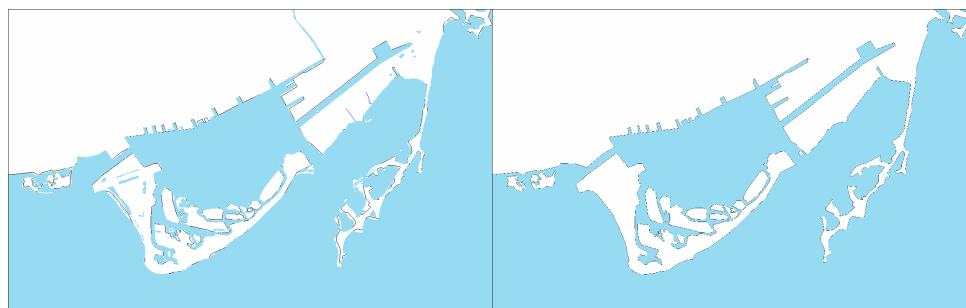
Recommended: "Unshorelined" boundaries with the national water (CANwat) layer on top of the boundary layer.

Shorelined boundaries are available from DMTI Spatial as a custom order. These boundaries are created using a subset of the CANwat layer, which is used to clip the overlap between the unshorelined boundaries.

### Topographic Coverage Areas

With the purchase of CanMap Streetfiles and CanMap RouteLogistics DMTI Spatial provides a detailed water layer (*AREAh*). Detailed water is only available in topographic coverage areas only.

It is not recommended that you view any shorelined boundaries with the detailed water layer (*AREAh*), as the two layers will not align with each other.



Detailed water layer (*AREAh*) and shorelined census boundaries

National water layer (*CANwat*) and shorelined census boundaries

Please contact DMTI Spatial if you require a detailed nationwide water product or shorelined boundaries

## **Appendix G: ISO 19115:2003 Compliant Metadata**

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### **Metadata Notification**

As of May 15<sup>th</sup> 2005, DMTI Spatial data products have metadata that are ISO 19115:2003 compliant.

This product now includes structured metadata files as provided in XML and/or HTM format. These metadata files reside with the graphic or database files to which they are associated. It is recommended that users review and customize the metadata as per their specific needs.

This latest addition to the CanMap<sup>®</sup> line of products is another enhancement that will benefit our users and increase overall product satisfaction.