



User Manual

**Forward Sortation Area
Boundaries**

**really
smart
spatial
solutions™**

www.dmtispatial.com

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About DMTI Spatial™

DMTI Spatial Inc. is Canada's leading spatial solutions provider that enables 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 data (CanMap®), and innovative geocoding software (GeoPinpoint™). In addition, DMTI Spatial publishes a full range of positionally accurate geo-spatial data products including; census data and boundaries, postal geography, topographic maps, marketing databases, and US maps & 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 dedicated to serving its customer's specific Geographical Information System requirements. Committed to setting the standard within the GIS industry for precision built street map data, innovative geocoding technology and positionally accurate geo-spatial datasets, DMTI Spatial believes the key to its customer's success is quality, customer service and in providing a complete geographic solution.

At DMTI Spatial, we believe that our true strength comes from working closely with our customer base and providing innovative spatial solutions to meet their strategic business requirements. As Canada's premier solution spatial provider we pride ourselves with having worked with North America's leading organizations to help them achieve their business geographic requirements.

DMTI Spatial has worked strategically with large and small organizations represented from a wide range 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

In October 2000, the Markham Board of Trade selected DMTI Spatial as the co-winner of the board's prestigious Business Excellence Award for Entrepreneurship and Innovation.

DMTI Spatial is a member of the ESRI Business Partner Program.



Really Smart Spatial Solutions

Through the application of its products and services, DMTI Spatial has been involved with projects such as: logistic planning, emergency dispatch, facilities management, data management, customer care, 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 for a successful GIS application:

- Accurate and compatible data products and base maps
- Comprehensive Maintenance Subscription program
- GIS software
- Consulting and services
- Software training

For more information on DMTI Spatial's Geographic Solutions for Business, please visit www.dmtispatial.com

DMTI Spatial Product & Service Portfolio

DMTI Spatial's product & service offering includes:

CanMap - *Digital Street Maps for Canada*

- CanMap® Streetfiles
- CanMap® Major Roads and Highways
- CanMap® RouteLogistics

GeoPinpoint™ - *Canada's Geocoding Solution*

- Standalone Geocoder
- ActiveX Control (OCX)
- UNIX Version

Points of Interest Layers

- Education
- Health Care
- Accommodation
- Car Rental Agencies
- Border Crossings & Customs Offices

Topographic Data and Base Maps

- Canadian Atlas Map Bundle
- National Topographic Data Base
- Canadian Digital Elevation Model
- Clutter Data

Postal Geography & Data

- Six-Digit Postal Code File
- Enhanced Postal Code File
- Forward Sortation Area (FSA) Boundary File

1996 Census Demographic Boundaries & Data

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

GIS Software

- For the Desktop
- For the Developer

Consulting and Services

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

If there is a map, data set, software package or service that you need and it is not listed, please contact DMTI Spatial. For technical product or service inquiries, please email us at support@dmτισpatial.com

We are constantly looking for ideas on how to improve our products and for new tools you need to stay competitive. We welcome your input, and look forward to being your solution provider for value-added geo-spatial products and services. To submit your feedback, please email us at wishlist@dmτισpatial.com

By using our data everyday 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 as soon as possible. To report your finding, please email us at fixme@dmτισpatial.com



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Forward Sortation Area Boundaries

The first three digits of the postal code identify the Forward Sortation Area (FSA). The DMTI Spatial FSA boundary file is created from the DMTI Spatial six digit postal code point file and CanMap. The FSA boundaries encompass the six digit postal code points starting with that FSA designation, and conform to the streets and other physical features within CanMap.

The DMTI Spatial FSA boundaries include multi-polygon regions where appropriate (i.e. two or more polygons which form one region or entity in the database), reflecting the complexity inherent in FSA geography.

A water file is included that is intended to be layered above the FSA boundary file when viewed in a GIS software package.

File Descriptions

AreaFSA

FieldName	Description	Type	Size
FSA	Forward Sortation Area	Character	3
Pop96 ¹	1996 Population	Integer ²	
Dwell96 ¹	1996 Dwellings	Integer ²	
Prov	2 letter alpha abbreviation (Canada Post)	Character	2
Prov_Code	2 number numeric abbreviation (Statistics Canada)	Character	2

AreaWAT

FieldName	Description	Type	Size
Name	Waterbody Name	Character	40

¹ The Population and Dwelling counts are based on the 1996 Census recast to DMTI Spatial's March 2000 FSA boundaries.

² In MapInfo, the field type will be Integer, and for ESRI packages, the field type will be Decimal (11,0)

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Postal Province Codes for Canada

The following table describes the provincial designation for the first letter in a Forward Sortation Area:

First Letter	Province or Territory
A	Newfoundland
B	Nova Scotia
C	Prince Edward Island
E	New Brunswick
G	Quebec (east)
H	Quebec (metropolitan Montreal)
J	Quebec (west)
K	Ontario (east)
L	Ontario (central)
M	Ontario (metropolitan Toronto)
N	Ontario (southwest)
P	Ontario (northern)
R	Manitoba
S	Saskatchewan
T	Alberta
V	British Columbia
X	Northwest Territories/Nunavut
Y	Yukon Territory

Appendix A: Shorelined Vs. Unshorelined Boundaries

DMTI Spatial's standard boundaries are all referred to as "Unshorelined". We make our boundaries in such a way that our users can overlay different scales of water coverages depending on the scale of their analysis. CanMap® is packaged with 2 water coverages: CANwat (which is a coarse water body layer) and AREAh (which is a fine water body layer available in Urban Areas). By including "Unshorelined" boundaries in the CanMap® product, users have the option of overlaying either the coarse, or fine water depending on the scale applicable for their analysis.

Unshorelined Boundaries

The following examples show the "Unshorelined" FED boundaries (from our Census product line) with the Coarse and Fine Water layers. The diagrams to the left show the boundaries layered on top of the water (with the official International boundary between USA and Canada). The diagrams to the right show the water layered on top of the boundaries.



Subset of Course Water Layer

The DMTI Spatial "Shorelined" boundaries are made based on a subset of the Coarse water layer. All of the Major waterbodies are "punched out" from the boundaries, therefore creating a "Shorelined" effect. The following diagrams show the difference between the content of the entire Coarse water layer and the Subset used for the purpose of "Shorelining".



**Entire Coarse Water Layer
(CanWAT)**

**Major Water used
to "Shoreline" boundaries
based on Coarse
Water Layer (CanWAT)**



Note: To receive "Shorelined" boundaries please contact your DMTI Spatial Account Manager.

Use of Shorelined Boundaries

The following diagrams show why "Shorelined" boundaries are not recommended for use with both the Coarse and Fine water layers.

