



## User Manual

## Clutter Data

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really  
smart  
spatial  
solutions™

[www.dmtispatial.com](http://www.dmtispatial.com)

## Table of Contents

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<b>ABOUT DMTI SPATIAL™</b> .....	<b>3</b>
Really Smart Spatial Solutions™ .....	4
DMTI Spatial™ Product & Service Portfolio .....	4
Error Reporting & Wish List Services .....	5
Contact Information .....	5
<b>ABOUT CLUTTER DATA</b> .....	<b>6</b>
<b>CLUTTER DATA CONTENTS</b> .....	<b>7</b>
Features: .....	7
<b>FILE PROPERTIES</b> .....	<b>9</b>
Data Source: .....	9
Resolutions: .....	9
Available Projections: .....	9
Datum: .....	9
Coverage: .....	9
Formats: .....	9
Primary Application: .....	9

## 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. Strategic business partner of Tele Atlas North America, 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
- CanMap® Water

### MultiNet™ - *Digital Map Data for USA*

- Tele Atlas MultiNet™

### Municipal Amalgamations

- 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
- Enhanced Postal Code File
- Forward Sortation Area (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

- Address Management Solution (AMS)
- 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/error\\_reporting.html](http://www.dmtispatial.com/error_reporting.html) or send an e-mail to: [fixme@dmtispatial.com](mailto:fixme@dmtispatial.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/product\\_wish\\_list.html](http://www.dmtispatial.com/product_wish_list.html) or send an e-mail to: [wishlist@dmtispatial.com](mailto:wishlist@dmtispatial.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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Digital Topographic Data produced under License from Her Majesty the Queen in Right of Canada, with permission of Natural Resources Canada and The Queen in Right of Manitoba.

## About Clutter Data

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For the most up-to-date information regarding DMTI Spatial's Clutter Data please visit:  
<http://www.dmtispatial.com/home.asp>

## Clutter Data Contents

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### Features:

The DMTI Spatial clutter data is based on the National Topographic Database (NTDB) 1:50,000 scale digital mapping (Standards and Specifications V3.0 and later). There are 10 available Land Use Classifications:

#### 1. Fresh Water

- Consisting of waterbody and watercourse features from the NTDB (DMTI Spatial “Hydrography” (HY) layer). DMTI Spatial has approximated a transition boundary between fresh water and ocean.

#### 2. Ocean

- Consisting of waterbody features from the NTDB (DMTI Spatial “Hydrography” (HY) layer). DMTI Spatial has approximated a transition boundary between fresh water and ocean.

#### 3. Coniferous Forest

- Consisting of forested areas extracted from the NTDB. Although the NTDB coverage consists mainly of coniferous forest, DMTI Spatial has approximated a transition boundary between deciduous and coniferous forests. This differentiated average has excluded the portions of Southern Ontario and Southern Quebec from the coniferous class (DMTI Spatial “Vegetation” (VE) layer).

#### 4. Deciduous Forest

- Consisting of forested areas extracted from the NTDB. Although the NTDB coverage consists of coniferous forest, DMTI Spatial has approximated a transition boundary between deciduous and coniferous forests. This differentiated average has limited the deciduous forest class to Southern Ontario and Southern Quebec (DMTI Spatial “Vegetation” (VE) layer).

#### 5. Open Land

- Areas where the NTDB contains no mapped features.

#### 6. Airports

- An enhanced feature of the Clutter product consisting solely of runway features from the NTDB (DMTI Spatial “Buildings and Structures” (BS) layer).

#### 7. Industrial

- An enhanced feature of the Clutter product consisting of gas and oil facilities, tanks, transformer stations, and other buildings from the NTDB (including: electric power stations, kilns (tobacco), industrial buildings, and gas and oil facilities buildings) (DMTI Spatial “Buildings and Structures” (BS); “Industrial-Resource” (IR); “Pipes and Transmission Lines” (PT) layers).

#### 8. Urban

- Consisting of built-up area features from the NTDB (DMTI Spatial “Built-Up Areas” (BA) layer).

#### 9. Dense Urban

- An enhanced feature consisting of stadiums and certain buildings from the NTDB (including: arenas, armouries, city halls, community centres,

courthouses, domes, fire stations, halls, hospitals, medical centres, municipal halls, museums, parliament buildings, police stations, sanatoriums, senior citizens homes, shopping centres, sportsplexes, penal buildings, religious buildings, and educational buildings) (DMTI Spatial “Buildings and Structures” (BS) layer).

**10. Wetland**

- Consisting of wetland features from the NTDB (DMTI Spatial “Wetlands” (WE) layer”.

**(Note:** All classifications may not necessarily be present for a given geographic area, due to the variations in the physical land characteristics across the country.)

## File Properties

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### Data Source:

- National Topographic Database (NTDB) 1:50,000 scale digital mapping (Standards and Specifications V3.0 and later).

### Resolutions:

- 30 metre captured from 1:50,000 NTDB and delivered in 1:50,000 or 1:250,000 geographies, i.e. an area of approximately 28km by 38km or 112km by 152km.
- 90 metre resampled from the 30 metre above and delivered in 1:50,000 or 1:250,000 geographies, i.e. an area of approximately 28km by 38km or 112km by 152km.

### Available Projections:

- Unprojected Latitude/Longitude
- UTM (Universal Transverse Mercator)

### Datum:

- NAD83 (North American Datum, 1983)

### Coverage:

- Nationwide based on availability of 1:50,000 NTDB

### Formats:

- Vertical Mapper (MapInfo “.grc” files)
- Text (Ascii grid)
- Arc/Info grid
- Planet (UTM projection only)
- Custom formats available on request

### Primary Application:

- RF Engineering