



**DMTI Spatial™
Product Line Changes
for February 2004**

**really
smart
spatial
solutions™**

www.dmtispatial.com

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About DMTI Spatial™

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™ Suite). 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 premiere 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 | • Forestry | • Mining |
| • Banking/Finance | • Government | • Real Estate |
| • Consulting | • Health | • Retail |
| • Education | • High Technology | • Telecommunications |
| • Emergency Services | • Insurance | • Transportation |
| • Engineering | • Manufacturing | • Utilities |
| • Environmental | • Media | |

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.

Product Changes and Enhancements

In keeping with DMTI Spatial's program of continuously updating our files, this release includes:

CanMap® Streetfiles v8.0

CanMap Streetfiles' comprehensive nationwide coverage provides detailed topographic and geographic features at the highest level for all major Canadian Urban Areas.

Data Quality Enhancements Include:

- Increased naming and addressing across Canada
- Addition of trail class to identifying types of trails
- **New colour enhancements for greater map visualization**

Field Changes

Building Footprints (AREAbf)

Field Name	Field Type	Field Size	Description	Change
CODE	Decimal	4, 0	Feature Code	Previously Decimal 11,0

Building Points (AREAbp)

Field Name	Field Type	Field Size	Description	Change
CODE	Decimal	4, 0	Feature Code	Previously Decimal 11,0

Land Labels (AREAll)

Field Name	Field Type	Field Size	Description	Change
CODE	Decimal	4, 0	Feature Code	Previously Decimal 11,0

Other Transportation (AREAot)

Field Name	Field Type	Field Size	Description	Change
CODE	Decimal	4, 0	Feature Code	Previously Decimal 11,0

Populate Placenames (AREAppn)

Field Name	Field Type	Field Size	Description	Change
MJR_CTY	Decimal	1,0	Identifies cities with populations > 100,000	Previously Logical
CAPITAL	Decimal	1,0	Identifies provincial capital cities and nation capital	Previously Logical
CSD_POP96	Decimal	8,0	Census Subdivision (CSD) population (1996) in which the placename is located	Previously Decimal 11,0

Parks & Recreation (AREApr) – Previously Parks (AREApk)

Field Name	Field Type	Field Size	Description	Change
NAME	Character	68	Park or Recreational Feature Name	Previously known as Park_Name
TYPE	Character	40	Park Designation example National, Provincial, Territorial Parks	Previously known as Park_Type

CLASS	Character	40	Park or Recreational Feature Classification	Previously known as Park_Class
FEATURE	Character	76	Park or Recreational Feature Type	New Field
CODE	Decimal	4,0	Park or Recreational Feature Code	New Field

Roads Lookup Table (AREArds_lut)

Field Name	Field Type	Field Size	Description	Change
ALASKAHWY	Decimal	1,0	Alaskan Highway flag	Previously Logical
CARIBOOHWY	Decimal	1,0	Cariboo Highway flag	Previously Logical
CRWSNSTHWY	Decimal	1,0	Crowsnest Highway flag	Previously Logical
DEMPSTRHWY	Decimal	1,0	Dempster Highway flag	Previously Logical
JOHNHRTHWY	Decimal	1,0	John Hart Highway flag	Previously Logical
KLONDKEHWY	Decimal	1,0	Klondike Highway flag	Previously Logical
MCKNZIEHWY	Decimal	1,0	Mackenzie Highway flag	Previously Logical
TRNSCDAHWY	Decimal	1,0	Trans Canada Highway flag	Previously Logical
YELLOWHDHWY	Decimal	1,0	Yellow Head Highway flag	Previously Logical
TOLL_RD	Decimal	1,0	Toll Road flag	Previously Logical
BRIDGE	Decimal	1,0	Bridge Flag	New (Previously in CANrte_lut)
TUNNEL	Decimal	1,0	Tunnel Flag	New (Previously in CANrte_lut)
BRUNNELNAM	Character	69	Bridge/Tunnel Name	New (Previously in CANrte_lut)
TRAILNAME	Character	100	Trail Name	New
TRAILTYPE	Character	50	Trail Type	New
TRAILCLASS	Character	20	Trail Class	New
TRAILCODE	Decimal	4,0	Trail Code	New

Railway (AREArI)

Field Name	Field Type	Field Size	Description	Change
CODE	Decimal	4,0	NTDB Classification Code	Previously Decimal 11,0

Railstop (AREArS)

Field Name	Field Type	Field Size	Description	Change
CODE	Decimal	4,0	NTDB Classification Code	Previously Decimal 11,0

Hydrographic Structures (AREAhS)

Field Name	Field Type	Field Size	Description	Change
CODE	Decimal	4, 0	Feature Code	Previously Decimal 11,0

Hydrography Structures (AREAhY)

Field Name	Field Type	Field Size	Description	Change
CODE	Decimal	4, 0	Feature Code	Previously Decimal 11,0

Industrial and Resource (AREAIr)

Field Name	Field Type	Field Size	Description	Change
CODE	Decimal	4, 0	Feature Code	Previously Decimal 11,0

Physiography (*AREAph*)

Field Name	Field Type	Field Size	Description	Change
CODE	Decimal	4, 0	Feature Code	Previously Decimal 11,0

Pipelines and Transmission (*AREApT*)

Field Name	Field Type	Field Size	Description	Change
CODE	Decimal	4, 0	Feature Code	Previously Decimal 11,0

Recreational (points & lines) (*AREAra*)

Layer was removed and amalgamated into the Parks & Recreation Layer (*AREApr*)

Recreational (regions) (*AREArp*)

Layer was removed and amalgamated into the Parks & Recreation Layer (*AREApr*)

Vegetation (*AREAve*)

Field Name	Field Type	Field Size	Description	Change
CODE	Decimal	4, 0	Feature Code	Previously Decimal 11,0

Wetlands (*AREAwE*)

Field Name	Field Type	Field Size	Description	Change
CODE	Decimal	4, 0	Feature Code	Previously Decimal 11,0

Water Labels (*AREAwI*)

Field Name	Field Type	Field Size	Description	Change
CODE	Decimal	4, 0	Feature Code	Previously Decimal 11,0

CanMap® RouteLogistics v8.0

CanMap RouteLogistics includes additional routing attributes required to generate "real world" routing across Canada.

Data Quality Enhancements Include:

- Increased naming and addressing across Canada
- Addition of trail class to identifying types of trails
- Addition and verification of Legislated Turn Restrictions
- **New colour enhancements for greater map visualization**

Field ChangesAerodromes (*AREAAer*)

Field Name	Field Type	Field Size	Description	Change
ICAO_CODE	Character	4	4 Character Aerodrome Location Indicator	Previously LOCAT_IND
IATA_CODE	Character	3	3 Character Aerodrome Location Indicator	New

Building Footprints (*AREAbf*)

Field Name	Field Type	Field Size	Description	Change
CODE	Decimal	4, 0	Feature Code	Previously Decimal 11,0

Building Points (*AREAbp*)

Field Name	Field Type	Field Size	Description	Change
CODE	Decimal	4, 0	Feature Code	Previously Decimal 11,0

Land Labels (*AREAll*)

Field Name	Field Type	Field Size	Description	Change
CODE	Decimal	4, 0	Feature Code	Previously Decimal 11,0

Other Transportation (*AREAot*)

Field Name	Field Type	Field Size	Description	Change
CODE	Decimal	4, 0	Feature Code	Previously Decimal 11,0

Populated Placenames (*AREAppn*)

Field Name	Field Type	Field Size	Description	Change
MJR_CTY	Decimal	1,0	Identifies cities with populations > 100,000	Previously Logical
CAPITAL	Decimal	1,0	Identifies provincial capital cities and nation capital	Previously Logical
CSD_POP96	Decimal	8,0	Census Subdivision (CSD) population (1996) in which the placename is located	Previously Decimal 11,0

Parks & Recreation (*AREApr*) – Previously Parks (*AREApk*)

Field Name	Field Type	Field Size	Description	Change
NAME	Character	68	Park or Recreational Feature Name	Previously known as Park_Name
TYPE	Character	40	Park Designation example National, Provincial, Territorial Parks	Previously known as Park_Type
CLASS	Character	40	Park or Recreational Feature Classification	Previously known as Park_Class
FEATURE	Character	76	Park or Recreational Feature Type	New Field
CODE	Decimal	4,0	Park or Recreational Feature Code	New Field

Relative Elevation Nodes (AREAren)

Field Name	Field Type	Field Size	Description	Change
NODE_ID	Decimal	8,0	Node Unique Identifier	Previously NODEID & Integer
REL_ELEV	Decimal	2,0	Relative Elevation Value	Previously Integer
LONGITUDE	Decimal	11,6	Centroid X of Node	Previously Decimal 20,6
LATITUDE	Decimal	11,6	Centroid Y of Node	Previously Decimal 20,6
INTRSECTION	Decimal	1,0	Indicates if Node Connects to Multiple Segments	Previously Logical

Roads (AREArte)

Field Name	Field Type	Field Size	Description	Change
ONEWAY	Decimal	1,0	One Way flag	Previously Logical

Roads Lookup Table (AREArds_lut)

Field Name	Field Type	Field Size	Description	Change
ALASKAHWY	Decimal	1,0	Alaskan Highway flag	Previously Logical
CARIBOOHWY	Decimal	1,0	Cariboo Highway flag	Previously Logical
CRWSNSTHWY	Decimal	1,0	Crowsnest Highway flag	Previously Logical
DEMPSTRHWY	Decimal	1,0	Dempster Highway flag	Previously Logical
JOHNHRTHWY	Decimal	1,0	John Hart Highway flag	Previously Logical
KLONDKEHWY	Decimal	1,0	Klondike Highway flag	Previously Logical
MCKNZIEHWY	Decimal	1,0	Mackenzie Highway flag	Previously Logical
TRNSCDAHwy	Decimal	1,0	Trans Canada Highway flag	Previously Logical
YELOWHDHWY	Decimal	1,0	Yellow Head Highway flag	Previously Logical
TOLL_RD	Decimal	1,0	Toll Road flag	Previously Logical
BRIDGE	Decimal	1,0	Bridge Flag	New (Previously in CANrte_lut)
TUNNEL	Decimal	1,0	Tunnel Flag	New (Previously in CANrte_lut)
BRUNNELNAM	Character	69	Bridge/Tunnel Name	New (Previously in CANrte_lut)
TRAILNAME	Character	100	Trail Name	New
TRAILTYPE	Character	50	Trail Type	New
TRAILCLASS	Character	20	Trail Class	New
TRAILCODE	Decimal	4,0	Trail Code	New

Railway (AREArI)

Field Name	Field Type	Field Size	Description	Change
RAILCO	Character	15	Railway owner/operator	Previously Character 64
ACCESS1	Character	15	Alternate railway owner/operator	Previously Character 64
ACCESS2	Character	15	Alternate railway owner/operator	Previously Character 64
ACCESS3	Character	15	Alternate railway owner/operator	Previously Character 64
US_RAILCO	Character	15	American owner/operator of connecting US railway line	Previously Character 64
US_STP	Character	50	American railway stop on connecting US railway line	Previously US_STATION & Character 100
MAIN	Decimal	1,0	Railway: Main line	Previously Logical
SIDETRACK	Decimal	1,0	Railway: Sidetrack	Previously Logical
ABANDONED	Decimal	1,0	Railway: Abandoned	Previously Logical
TUNNEL	Logical		Flag identifying the railway line as being a tunnel	Field Removed – Refer to CODE for Tunnel reference
BRIDGE	Logical		Flag identifying the railway line as being a bridge	Field Removed – Refer to CODE for Bridge reference
CODE	Decimal	4,0	NTDB Classification Code	Previously Decimal 11,0

Railstop (AREArs)

Field Name	Field Type	Field Size	Description	Change
RAILCO	Character	15	Railway owner/operator	Previously Character 64
CODE	Character	4,0	NTDB Classification Code	Previously Decimal 11,0 64

Roads Lookup Table (AREArte_lut)

Field Name	Field Type	Field Size	Description	Change
ON_RAMP	Decimal	1,0	On Ramp Flag	Previously Logical
OFF_RAMP	Decimal	1,0	Off Ramp Flag	Previously Logical
BRIDGE	Decimal	1,0	Bridge Flag	Field Removed – Refer to RDS_LUT
TUNNEL	Decimal	1,0	Tunnel Flag	Field Removed – Refer to RDS_LUT
BRUNNELNAM	Character	69	Bridge/Tunnel Name	Field Removed – Refer to RDS_LUT
DIST_FC	Decimal	10,3	The calculated distance along the gradient between the From Node and the Centroid (meters)	Previously Float
DIST_CT	Decimal	10,3	The calculated distance along the gradient between the Centroid and the To Node (meters)	Previously Float

Hydrographic Structures (AREAhS)

Field Name	Field Type	Field Size	Description	Change
CODE	Decimal	4, 0	Feature Code	Previously Decimal 11,0

Hydrography Structures (AREAh_y)

Field Name	Field Type	Field Size	Description	Change
CODE	Decimal	4, 0	Feature Code	Previously Decimal 11,0

Industrial and Resource (AREAir)

Field Name	Field Type	Field Size	Description	Change
CODE	Decimal	4, 0	Feature Code	Previously Decimal 11,0

Physiography (AREAp_h)

Field Name	Field Type	Field Size	Description	Change
CODE	Decimal	4, 0	Feature Code	Previously Decimal 11,0

Pipelines and Transmission (AREAp_t)

Field Name	Field Type	Field Size	Description	Change
CODE	Decimal	4, 0	Feature Code	Previously Decimal 11,0

Recreational (points & lines) (AREAr_a)

Layer was removed and amalgamated into the Parks & Recreation Layer (AREAp_r)

Recreational (regions) (AREAr_p)

Layer was removed and amalgamated into the Parks & Recreation Layer (AREAp_r)

Vegetation (AREAv_e)

Field Name	Field Type	Field Size	Description	Change
CODE	Decimal	4, 0	Feature Code	Previously Decimal 11,0

Wetlands (AREAw_e)

Field Name	Field Type	Field Size	Description	Change
CODE	Decimal	4, 0	Feature Code	Previously Decimal 11,0

Turn Restrictions (AREAt_{rn})

Field Name	Field Type	Field Size	Description	Change
ON_RED_SIG	Decimal	1,0	1 = can not turn on Red, 0 = turn on any signal	Previously Logical
AUTH_VEHIC	Decimal	1,0	1 = authorized vehicles only, 0 = all vehicles excepted	Previously Logical
BUS_EXCEPT	Decimal	1,0	1 = buses excepted, 0 = no exceptions	Previously Logical
LEGISLATED	Decimal	1,0	1 = legislated, 0 = non-legislated	Previously Logical
PROV	Character	2	Province Abbreviation	New

Transportation Route Restrictions (*AREAttr*)

Field Name	Field Type	Field Size	Description	Change
RDS_ID	Decimal	9,0	Unique Identifier	Previously Integer
RES_TRUCK	Decimal	1,0	Truck Restriction Flag	Previously Logical
CSD_NAME	Character	68	Census Subdivision Name	Removed

Weigh Stations (*AREAwgh*)

Field Name	Field Type	Field Size	Description	Change
YEAR_ROUND	Decimal	1,0	Year Round operation	Previously Logical
RESTROOM	Decimal	1,0	Restrooms available	Previously Logical
AVION401	Decimal	1,0	Avion 401 automated clearance system	Previously Logical

Water Labels (*AREAwl*)

Field Name	Field Type	Field Size	Description	Change
CODE	Decimal	4, 0	Feature Code	Previously Decimal 11,0

CanMap® Major Roads and Highways v8.0

A subset of CanMap Streetfiles, this precision-based data contains provincial highways and expressways, major roads in populated areas, county roads in rural areas, regional municipal boundaries, and major hydrography.

Data Quality Enhancements Include:

- Increased naming across Canada
- Addition of trail class to identifying types of trails
- **New colour enhancements for greater map visualization**

Field ChangesMajor Roads and Highways Lookup Table (*AREAhrrd_lut*)

Field Name	Field Type	Field Size	Description	Change
ALASKAHWY	Decimal	1, 0	Alaskan Highway flag	Previously Logical
CARIBOOHWY	Decimal	1, 0	Cariboo Highway flag	Previously Logical
CRWSNSTHWY	Decimal	1, 0	Crowsnest Highway flag	Previously Logical
DEMPSTRHWY	Decimal	1, 0	Dempster Highway flag	Previously Logical
JOHNHRTHWY	Decimal	1, 0	John Hart Highway flag	Previously Logical
KLONDKHEWY	Decimal	1, 0	Klondike Highway flag	Previously Logical
MCKNZIEHWY	Decimal	1, 0	Mackenzie Highway flag	Previously Logical
TRNSCDAHWY	Decimal	1, 0	TransCanada Highway flag	Previously Logical
YELOWHDHWY	Decimal	1, 0	Yellow Head Highway flag	Previously Logical
TOLL_RD	Decimal	1, 0	Toll Road flag	Previously Logical
BRIDGE	Decimal	1, 0	Bridge Flag	New (Previously in CANrte_lut)
TUNNEL	Decimal	1, 0	Tunnel Flag	New (Previously in CANrte_lut)
BRUNNELNAM	Character	69	Bridge/Tunnel Name	New (Previously in CANrte_lut)

Populated Placenames (*AREAppn*)

Field Name	Field Type	Field Size	Description	Change
MJR_CTY	Decimal	1,0	Identifies cities with populations > 100,000	Previously Logical
CAPITAL	Decimal	1,0	Identifies provincial capital cities and nation capital	Previously Logical
CSD_POP96	Decimal	8,0	Census Subdivision (CSD) population (1996) in which the placename is located	Previously Decimal 11,0

Roads Lookup Table (*AREAhrrd_lut*)

Field Name	Field Type	Field Size	Description	Change
ALASKAHWY	Decimal	1,0	Alaskan Highway flag	Previously Logical
CARIBOOHWY	Decimal	1,0	Cariboo Highway flag	Previously Logical

CRWSNSTHWY	Decimal	1,0	Crowsnest Highway flag	Previously Logical
DEMPSTRHWY	Decimal	1,0	Dempster Highway flag	Previously Logical
JOHNHRTHWY	Decimal	1,0	John Hart Highway flag	Previously Logical
KLONDKEHWY	Decimal	1,0	Klondike Highway flag	Previously Logical
MCKNZIEHWY	Decimal	1,0	Mackenzie Highway flag	Previously Logical
TRNSCDAHWWY	Decimal	1,0	Trans Canada Highway flag	Previously Logical
YELLOWHDHWY	Decimal	1,0	Yellow Head Highway flag	Previously Logical
TOLL_RD	Decimal	1,0	Toll Road flag	Previously Logical
BRIDGE	Decimal	1,0	Bridge Flag	New (Previously in CANrte_lut)
TUNNEL	Decimal	1,0	Tunnel Flag	New (Previously in CANrte_lut)
BRUNNELNAM	Character	69	Bridge/Tunnel Name	New (Previously in CANrte_lut)
TRAILNAME	Character	100	Trail Name	New
TRAILTYPE	Character	50	Trail Type	New
TRAILCLASS	Character	20	Trail Class	New
TRAILCODE	Decimal	4,0	Trail Code	New

CanMap® Canada **Directory v8.0**

The Canada Directory is included with:

- ❖ CanMap Streetfiles
- ❖ CanMap RouteLogistics
- ❖ CanMap Major Roads & Highways
- ❖ CanMap Parks & Recreation
- ❖ CanMap Rail
- ❖ CanMap Water
- ❖ CanMap Postal Geography
- ❖ CanMap Municipal Amalgamation File and
- ❖ CanMap Populated Placenames

The directory consists of area code boundaries, time zone boundaries, provincial boundaries, regional municipality boundaries, DMTI topographic boundaries, DMTI national coarse water and 1996 census subdivisions ("CSD") boundaries and data.

Data Quality Enhancements Include:

- **New colour enhancements for greater map visualization**
- Addition of a new Capital Cities layer (CANcap)

Addition of a new Capital Cities layer (CANcap)

Field Name	Field Type	Field Size	Description	Change
PPN_NAME	Character	68	Capital City Name	New
PROV	Character	2	Province Abbreviation	New

Field Changes

CANtop

Field Name	Field Type	Field Size	Description	Change
NAME	Character	68	Topographic Area name	Previously Full_Name
NAME_ABBR	Character	5	Topographic Area Name Abbreviation	Previously Name

CanMap® Municipal Amalgamation File (MAF) v2.0

Data Quality Enhancements Include:

- New colour enhancements for greater map visualization
- New Amalgamation - District of Timaskaming: New Liskeard, Town/Haileybury, Town/Dymond, Township Amalgamation becomes the new Municipality of New Liskeard-Haileybury-Dymond

CanMap® Parks and Recreation v2.0

Data Quality Enhancements Include:

- CanMap Parks has been renamed CanMap Parks & Recreation to reflect the addition of other recreational features. Previously known as CANpk the product is now referred to as **CANpr**.
- Addition of over 42,000 amusement parks, botanical gardens, campgrounds, cemeteries, drive-in theatres, exhibition grounds, forts, Golf driving ranges, golf courses, liquids depot/dump, lookouts, stadiums, park/sports fields, picnic sites, zoos, historic site, camps and sports track/race track.
- Verification and boundary alignment of golf courses in the Greater Toronto Area (GTA).
- Verification and boundary alignment of park/sports fields in the Greater Toronto Area (GTA).
- Field names have been capitalized.
- New colour enhancements for greater map visualization

File Changes

Field Name	Field Type	Field Size	Description	Change
NAME	Character	68	Park or Recreational Feature Name	Previously known as Park_Name
TYPE	Character	40	Park Designation example National, Provincial, Territorial Parks	Previously known as Park_Type
CLASS	Character	40	Park or Recreational Feature Classification	Previously known as Park_Class
FEATURE	Character	76	Park or Recreational Feature Type	New Field
CODE	Decimal	4,0	Park or Recreational Feature Code	New Field

CanMap® Populated Placenames v2.0**Data Quality Enhancements Include:**

- 51 New Populated Placename points
- 5732 repositioned points based on NTDB or CanMap Streetfiles graphics
- New colour enhancements for greater map visualization

File Structure

Field Name	Field Type	Field Size	Description	Change
MJR_CTY	Decimal	1,0	Identifies cities with populations > 100,000	Previously Logical
CAPITAL	Decimal	1,0	Identifies provincial capital cities and nation capital	Previously Logical
CSD_POP96	Decimal	8,0	Census Subdivision (CSD) population (1996) in which the placename is located	Previously Decimal 11,0

CanMap® Postal Geography v8.0

The **CanMap Six Digit Postal Code** product is a precision-based point file of postal codes across Canada. This Six Digit Postal Code product contains over 800,000 postal code points positioned to the most representative address.

Data Quality Enhancements Include:

- Six Digit Postal Codes realigned to CanMap Streetfiles v8.0
- Six Digit Postal Codes are current as December 2003

Field Changes

Field Name	Field Type	Field Size	Description	Change
SLI	Decimal	1,0	Single Link indicator (Identifies main postal code record when multiple exist)	Previously Decimal 6,0
POPULATION	Decimal	6,0	1996 Census Population	Previously Decimal 11,0
DWELLINGS	Decimal	5,0	1996 Census Dwelling Count	Previously Decimal 11,0
POSITION	Decimal	2,0	Representative point flag, this identifies the method used to geographically position the coordinate.	Previously Decimal 11,0

The **CanMap Multiple Enhanced Postal Code** product is a precision-based point file representing over 1 million postal codes across Canada, with a geographic link to Statistics Canada's standard 1996 Census Boundaries. The Multiple Enhanced Postal Code product allows for a one to many relationship. For example, one postal code may represent more than one postal code location.

Data Quality Enhancements Include:

- Six Digit Postal Codes realigned to CanMap Streetfiles v8.0
- Six Digit Postal Codes are current as December 2003

Field Changes

Field Name	Field Type	Field Size	Description	Change
SLI	Decimal	1,0	Single Link indicator (Identifies main postal code record when multiple exist)	Previously Decimal 6,0
POPULATION	Decimal	6,0	1996 Census Population	Previously Decimal 11,0
DWELLINGS	Decimal	5,0	1996 Census Dwelling Count	Previously Decimal 11,0
POSITION	Decimal	2,0	Representative point flag, this identifies the method used to geographically position the coordinate.	Previously Decimal 11,0

CanMap® Rail v2.0Field Changes

Railway (AREAr)

Field Name	Field Type	Field Size	Description	Change
RAILCO	Character	15	Railway owner/operator	Previously Character 64
ACCESS1	Character	15	Alternate railway owner/operator	Previously Character 64
ACCESS2	Character	15	Alternate railway owner/operator	Previously Character 64
ACCESS3	Character	15	Alternate railway owner/operator	Previously Character 64
US_RAILCO	Character	15	American owner/operator of connecting US railway line	Previously Character 64
US_STP	Character	50	American railway stop on connecting US railway line	Previously US_STATION & Character 100
MAIN	Decimal	1,0	Railway: Main line	Previously Logical
SIDETRACK	Decimal	1,0	Railway: Sidetrack	Previously Logical
ABANDONED	Decimal	1,0	Railway: Abandoned	Previously Logical
TUNNEL	Logical		Flag identifying the railway line as being a tunnel	Field Removed – Refer to CODE for Tunnel reference
BRIDGE	Logical		Flag identifying the railway line as being a bridge	Field Removed – Refer to CODE for Bridge reference
CODE	Decimal	4,0	NTDB Classification Code	Previously Decimal 11,0

Railstop (AREAr)

Field Name	Field Type	Field Size	Description	Change
RAILCO	Character	15	Railway owner/operator	Previously Character 64
CODE	Character	4,0	NTDB Classification Code	Previously Decimal 11,0 64

CanMap® Water v2.0

CanMap Water v2.0 represents a consolidated coverage of the water features across Canada. CanMap Water is engineered from a combination of National Topographic Data Base (NTDB) 1:50,000 and 1:250,000 scale hydrographic mapping data.

Data Quality Enhancements Include:

- Additional major water polygons named
- Additional major double-line rivers split from adjoining lakes
- Addition of 344 NTDB 1:50,000 scale hydrographic data sheets to the water product.
- The new 1:50,000 scale hydrographical data sheets cover Northern British Columbia and Alberta. There is a small area in Northern Ontario with additional of 50k data sheets coverage as well as along the Northern Manitoba and in southwestern Nunavut border.
- New 1:50,000 scale hydrographical data sheets cover the areas of Northern British Columbia, Northern Alberta, Northern Ontario, Northern Manitoba and Southern Nunavut.
- Field names have been capitalized.
- New colour enhancements for greater map visualization

Field Changes

Major Waterbody Water feature - Regions (mjwtr)

Field Name	Field Type	Field Size	Description	Change
CODE	Decimal	4,0	Feature Code	Previously Code and Decimal (11,0)

Major Water Points (mjwtp)

Field Name	Field Type	Field Size	Description	Change
CODE	Decimal	4,0	Feature Code	Previously Code and Decimal (11,0)

Major Waterbody Name feature - Points (mjnmp)

Field Name	Field Type	Field Size	Description	Change
CODE	Decimal	4,0	Feature Code	Previously Code and Decimal (11,0)

Minor Waterbody Water feature -Regions (mnwtr)

Field Name	Field Type	Field Size	Description	Change
CODE	Decimal	4,0	Feature Code	Previously Code and Decimal (11,0)

Minor Waterbody Intermittent/slough Regions (mninr)

Field Name	Field Type	Field Size	Description	Change
CODE	Decimal	4,0	Feature Code	Previously Code and Decimal (11,0)

Minor Waterbody Water feature -Polylines (mnwtl)

Field Name	Field Type	Field Size	Description	Change
CODE	Decimal	4,0	Feature Code	Previously Code

				and Decimal (11,0)
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Minor Water Points (mnwtp)

Field Name	Field Type	Field Size	Description	Change
CODE	Decimal	4,0	Feature Code	Previously Code and Decimal (11,0)

Minor Waterbody Name feature - Points (mnnmp)

Field Name	Field Type	Field Size	Description	Change
CODE	Decimal	4,0	Feature Code	Previously Code and Decimal (11,0)

Enhanced Points of Interest (EPOI) v3.1

The Enhanced Points of Interest (EPOI) v3.1 file is a national database of over 1 million Canadian business and recreational points of interest. Engineered using CanMap® Streetfiles, each EPOI has been accurately geocoded and precisely placed.

Data Quality Enhancements Include:

- Addition of a cinema layer
- Addition and verification of Tourism (TOU) points of interest
- Addition and verification of Border Crossing (BOR) points of interest
- Addition and verification of Tourism (TOU) points of interest

Field Changes

The following fields have been added to all EPOI tables:

Field Name	Field Type	Field Size	Field Description	Change
SIC_DIV	CHAR	1	SIC Division	New Field
SIC_MJ_GRP	CHAR	2	SIC Major Group	New Field

Cinema Look Up Table (CIN)

Field Name	Field Type	Field Size	Field Description	Change
SCREEN_NO	CHAR	5	Number of viewing screens	New Field
PHONE_2	CHAR	15	Second phone number	New Field

Aerodrome Look Up Table (AER)

Field Name	Field Type	Field Size	Field Description	Change
LOCAT_IND	CHAR	4	Location Indicator (airport code)	Removed Field – Replaced by ICAO_CODE
IATA_CODE	CHAR	3	3 character airport code	New Field
ICAO_CODE	CHAR	4	4 character airport code	New Field
X1	NUMBER	DOUBLE	X coordinate of first exit/entrance point	New Field
Y1	NUMBER	DOUBLE	Y coordinate of first exit/entrance point	New Field
X2	NUMBER	DOUBLE	X coordinate of second exit/entrance point	New Field
Y2	NUMBER	DOUBLE	Y coordinate of second exit/entrance point	New Field
X3	NUMBER	DOUBLE	X coordinate of third exit/entrance point	New Field
Y3	NUMBER	DOUBLE	Y coordinate of third exit/entrance point	New Field

GeoPinpoint™ Suite v5.1

GeoPinpoint™ Suite v5.1 positions your data using a powerful and innovative geo-location process called geocoding. GeoPinpoint Suite attaches X and Y coordinates to your facility, customer, or prospect address data for map visualization, analysis or location based applications. The GeoPinpoint Suite takes advantage of a new modular design that allows the software to encompass future module enhancements without jeopardizing its performance or usability.

Data Quality Enhancements Include:

- Additional streets and postal codes have been added to the Geo-reference Database based upon CanMap® Streetfiles v8.0
- Enhancement to API output to return municipality values associated with address ranges
- Continued Beta Scrubber functionality (Windows/ActiveX)
- Continued Beta Soundex functionality (Windows/ActiveX)
- Windows/API Documentation enhancements

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 or send an e-mail to: fixme@dmτισpatial.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 or send an e-mail to: wishlist@dmτισpatial.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.
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Features You Have Come To Appreciate from DMTI Spatial

CanMap® Streetfiles v8.0

CanMap Streetfiles' comprehensive nationwide coverage provides detailed topographic and geographic features at the highest level for all major Canadian Urban Areas.

Nationwide Features Include:

- Over 1.5 million total kilometres across Canada
- Verification of over 40,000 building footprints across Canada's major urban centres
- Street centerline road network, names and address ranges
- Roads look up table including alias name, highway numbers and names, road numbers and more
- 6 cartographic road classifications
- Major roads and highways layer
- Highway exit numbers
- Bridges, tunnels, ferry routes and ice roads available
- Points of Interest including golf features, healthcare, education, toll booths and car pool lots
- Over 1,800 parks
- Approximately 700 rail stations and stops
- Approximately 2000 rail bridges
- Verification of rail in the GTA, Vancouver, Montreal, Edmonton, Calgary, London, Halifax, Ottawa
- Over 20,000 populated placenames
- Municipal boundaries and amalgamations
- Canada/US border crossings linking Canadian and US Roads

CanMap® RouteLogistics v8.0

CanMap RouteLogistics includes additional routing attributes required to generate "real world" routing across Canada.

Nationwide Features Include:

- Over 1.5 million total kilometres across Canada
- Verification of over 40,000 building footprints across Canada's major urban centres
- Physical and legislated turn restrictions
- Truck route restrictions
- Routing hierarchy
- Collector to express and express to collector exit points
- Highway exit numbers
- Roads look up table including alias name, highway numbers and names, road numbers and names, toll roads and inter-provincial highways e.g.: Trans Canada Highway
- Points of interest including weigh stations and aerodromes
- Calculated gradient, distance and travel times based on the slope of each segment
- Relative elevation nodes
- Forward Sortation Area (FSA) boundaries
- Canada/US border crossings linking Canadian and US Roads
- Verification of rail in the GTA, Vancouver, Montreal, Edmonton, Calgary, London, Halifax, Ottawa
- 6 cartographic road classifications including expressways, primary highways, secondary highways, major roads, local roads and trails
- Over 1,800 parks including national, provincial, territorial, marine, wilderness and reserves
- Over 20,000 populated placenames across Canada
- Municipal boundaries and amalgamations
- Major hydrography including rivers, lakes, and coastlines

CanMap® Major Roads and Highways v8.0

A subset of CanMap Streetfiles, this precision-based data contains provincial highways and expressways, major roads in populated areas, county roads in rural areas, regional municipal boundaries, and major hydrography.

Nationwide Features Include:

CanMap Major Roads & Highways provide the following nationwide features:

- Highway Exit Numbers file now included
- Over 22,000 Populated Placenames
- All major roads are named and categorized
- Highways are categorized by expressways and provincial highways
- Highway attributes include highway number and name (if applicable) and road classification
- Provincial, federal highways, and expressways
- Inter-provincial highways have been added with a separate look-up table
- Secondary roads, major roads in populated areas
- Regional, and provincial boundaries
- Major hydrography (rivers, lakes, and coastlines)

CanMap® Municipal Amalgamation File (MAF) v2.0**Nationwide Features Include:**

The Municipal Amalgamation File (MAF) is a supplementary municipality boundary with CanMap® Streetfiles and CanMap® RouteLogistics and reflects recent changes to any amalgamated municipal boundaries, their subsequent changes to name, municipality type and date of amalgamation. An amalgamation is defined as a consolidation of two or more entire municipalities.

The Municipal Amalgamation file contains:

- Amalgamation data derived from the 1996 census, 2001 census, and provincial/territorial sources
- Census Subdivision Name and Type revisions from the 1996 census and 2001 census

CanMap® Parks & Recreation v2.0

- Over 1800 national, provincial and territorial parks across Canada
- 12 different Park classifications include:
 - National
 - Territorial
 - Provincial
 - Ecological reserves
 - Wilderness parks and areas,
 - Wildland parks,
 - Grizzly bear sanctuaries
 - Recreational areas,
 - Protected areas
 - Heritage parks
 - Natural parks
 - Park reserve boundaries and points

- Park attributes that consist of Name, Province, Park type and Park classification
- User-friendly custom data display files

CanMap® Populated Placenames v2.0

Canada's most accurate and cost effective database for macro geocoding and mapping applications.

- Representative points for 'populated' places across Canada
- Name and province of 'populated' place
- Latitude and longitude coordinates
- Precision codes representing the level of accuracy of each point
- Major city (population >100,000) flag
- Minor city (population <100,000) flag
- Capital city flag
- Code to identify city, town, village, or community (rural or urban)
- 1996 CSD name and code for each point feature
- 1996 CSD population count of associated CSD

CanMap® Postal Geography v8.0

The Postal Geography database is a precision-based point file representation of postal codes across Canada. DMTI Spatial's CanMap Postal Geography is based on the precision of CanMap Streetfiles. This is a comprehensive and detailed collection of Canadian postal products that is available in the marketplace.

Six Digit Postal Code File v8.0

Nationwide Features Include:

- Over 800,000 Six Digit Postal Codes across Canada
- Postal Code Birth Dates and Retirement Dates
- Coordinate location (X, Y)
- 1996 Census Population and Dwelling counts

Enhanced Postal Code File (Multiple & Unique) v.8.0

Nationwide Features include:

- Over 1 million Multiple Enhanced Postal Codes across Canada
- Over 800,000 Unique Enhanced Postal Codes across Canada
- Postal Code Birth Dates and Retirement Dates
- Postal Code and Delivery Mode type
- Single Link Indicator (SLI) identifying unique dominant postal codes
- Coordinate location (X, Y)
- Community name
- 1996 Census Subdivision (CSD) Type, Name, Population and Dwelling counts
- Links to 1996 Census boundaries; EA, CD, CSD, CMA/CA, CT
- Links to Representation Order Federal Electoral Districts (FED) 1996 and 1987

Forward Sortation Boundaries v8.0

Nationwide Features include:

- FSA boundaries across Canada

- Over 1600 boundaries
- Province abbreviation code
- Aligned to nest with CanMap® Multiple and Unique Enhanced Postal Codes and CanMap Six Digit Postal Codes

CanMap® Rail v2.0

Canada's only nationwide, precision-based railway line data based on the 1:50,000 NTDB scale. CanMap Rail provides the complete picture of Canada's rail infrastructure currently in operation, including railway lines classified as abandoned.

Nationwide Features include:

- Complete 1:50,000 scale mainline railway network for Canada
- Provide rail ownership and operator information *
- Identifies spur lines or side tracks but does not provide attribute information
- Includes railway lines classified as abandoned (some at 1:2,000,000 scale)
- Canada/US border attribution added to segments that connect to the US railway:
 - American rail owner/operator
 - American railway station of entry
 - State that railway segment enters into
- Tunnel flag has been added to indicate existence of rail tunnels

* In the majority of cases the rail operators are also the owners of the line.

CanMap® Water v2.0

CanMap Water v2.0 represents a consolidated coverage of the water features across Canada. CanMap Water is engineered from a combination of National Topographic Data Base (NTDB) 1:50,000 and 1:250,000 scale hydrographic mapping data.

Nationwide Features Include:

- Additional water point features include:
 - Disappearing streams
 - Navigational hazards i.e. rock(s) in water and exposed shipwrecks, Lakes, Rivers and Navigable Canals
- Lakes, rivers and navigable canals
- Naming of major water polygons
- Major water polygons split from adjoining lakes
- Hydrographic label points
- Intermittent water layer
- User-friendly custom data display files

Enhanced Points of Interest (EPOI) v3.1

The Enhanced Points of Interest (EPOI) v3.1 file is a national database of over 1 million Canadian business and recreational points of interest. Engineered using CanMap Streetfiles, each EPOI has been accurately geocoded and precisely placed.

Nationwide Features Include:

This data set fully integrates across the CanMap suite of mapping data products, and includes:

- Standard industry classification code (SIC)
- Coordinate location (X, Y)
- Record name
- Address, city, province, postal code, telephone number
- Common Address Flag (CAF) allowing users to identify records with common addresses
- Geocode and Attribute precision codes
- Points of interest with enhanced attribution i.e. Health Care includes information on number of beds available in that facility

GeoPinpoint™ Suite v5.1

GeoPinpoint Suite v5.1 positions your data using a powerful and innovative geo-location process called geocoding. GeoPinpoint Suite attaches X and Y coordinates to your facility, customer or prospect address data for map visualization, analysis or location based applications. The GeoPinpoint Suite takes advantage of a new modular design that allows the software to encompass future module enhancements without jeopardizing its performance or usability.

Features Include:

GeoPinpoint Suite uses a unique system of address parsing and standardization techniques to cleanse input data thereby improving address-matching rates.

- Accurate nationwide geo-reference database (*updated quarterly*)
- Parsed and un-parsed input address matching system
- Dynamic data matching process for: address/intersection, postal code, point of interest (POI), forward sortation address (FSA), municipality centroid, or populated place name (PPN)
- Geocode by address point data or by segment range
- Street alias and point of interest alias search capability functions
- Standardizes data records, and optimizes geocoding results
- Relaxed matching options to enhance geocoding results
- Recognizes French and English address styles
- Application interface includes user friendly menus and flexible geocoding options
- Geocode large databases in a single pass quickly and accurately (interactive and batch mode)
- Refined Street Segment search function for improved results
- Interactive geocoding process that allows user input for advanced matches
- Pre-direction functionality improves geocoding results for addresses that have pre-direction attribute
- 'Opposite side of the street' geocoding functionality (Windows/API)
- Ability to generate a summary report containing intuitive description of geocoding results
- ODBC Connection support for Oracle 8i/9i, Microsoft Access 97/2000, dBase, FoxPro files
- Addition of an enhanced tutorial for unparsed/parsed geocoding

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