



Land Information Ontario

Warehouse Data Class Description
Report:

Contour

Format:
Standard NRVIS Interchange Format (SNIF)

Issued: February 26, 2009

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Introduction

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Using this Report

This report describes the contents and structure of the selected data class package in the format (SNIF) in which data classes are extracted from and published to the Ontario Land Information Warehouse. The purpose of this report is to assist data users in understanding the data received in the SNIF package, as well as to assist data publishers in creating a SNIF package for a single data class.

For a general overview of the SNIF package, refer to the document entitled [What is SNIF?](#) The document entitled *Land Information Ontario Detailed SNIF Subscription Specifications* provides a detailed examination of the SNIF.

This report is meant to be used in conjunction with the [Warehouse Data Class Description Report for Common Tables](#). These two reports together fully describe the complete contents of a SNIF package.

Data Class Overview

The Data Class Overview section provides an overall description of the data class, including version. The abstract class refers to the spatial characteristics to which this class conforms.

File List

The File List section lists the mandatory and optional data class tables that are contained within a SNIF package. Tables that are listed as optional may not necessarily be included in a SNIF package. This report only lists the tables that are contained within the SNIF package “spatial” folder. The tables in the “common” folder relate to every data class and are described in a separate *Warehouse Data Class Description Report for Common Tables*.

Product Data Model

The relevant tables for the data class are depicted in diagram form, showing the relationships between the tables. Common tables are not included in the diagram. Their relationships to the geographic unit (GEOG_UNIT) table are depicted in diagram form in the *Warehouse Data Class Description Report for Common Tables*.

Data Class Table Descriptions

This section of the report describes each table associated with the data class. A description of the table is included, along with column names, descriptions, types, and sizes. Columns which are considered mandatory are noted. The abbreviated column names that appear in the shape file itself are also shown.

Valid values are listed for any columns which have a predefined list of possible values. If there are more than six possible values, the first six are shown in the report with the column description. The complete list is shown in the report appendix.

Using this Report - continued

Some data classes are distributed with an enhanced shape file that contains all attributes from tables that are related to the geographic unit table in a one-to-one relationship. These columns are described in the “_DBF_VW” table in this section of the report. Each column description includes the source data class table in which the column exists. For example, the source for the DBF column “NAME” would be noted as AIRPORT_AIRSTRIP.OFFICIAL_NAME. This means that the NAME column is the OFFICIAL_NAME column located in the AIRPORT_AIRSTRIP table.

Appendix

The report appendix includes full listings of permissible values for columns with more than six possible values. Also included is a description of date fields that are included in every table.

Related Documents

[What is SNIF?](#)

[Warehouse Data Class Description Report for Common Tables](#)

[Ministry of Natural Resources Policy for Management of Classified Data in Ontario
Land Information Warehouse](#)

[Land Information Ontario Detailed SNIF Subscription Specifications](#)

[Land Information Ontario Detail SNIF Publication Specifications](#)

Data Class Overview

Data Class: Contour
Short Name: CONTOUR
Version: 3

Linear segments that connect contiguous points of the same elevation that are compiled and used to describe terrain relief. Includes:

- Contour Land
- Contour Land Approximate
- Contour Land Auxiliary/Interpolated
- Contour Land Depression

Abstract Class: SPSLINE

Spatial Single-Line: An object is represented by ONE and ONLY ONE line segment. Line segments MUST be continuous. Examples: geological fault lines, roads at a 1:600,000 scale

File List

The following list specifies the table files, along with their folder locations and type (mandatory, optional, or lookup), that are included in a SNIF package for this data class, as extracted from the Ontario Land Information Warehouse.

For data publishers, the table files that are not identified as mandatory may be included if the appropriate data is available. Likewise, additional common tables (as described in the *Warehouse Data Class Description Report for Common Tables*) are also identified as optional and may be included if the appropriate data is available. Table files identified as lookup tables provide descriptive values for codes within other tables. These tables do not need to be supplied by data publishers.

Folder and File Name	Mandatory/Lookup
spatial\CONTOUR\CONTOUR_FT.tbl	Yes
spatial\CONTOUR\LOCATION_ACCURACY_LIST.tbl	(lookup)
spatial\CONTOUR\arc (shapefile)	No

Product Data Model

Physical Data Model	
Model:	Contour Simple Class
Package:	
Diagram:	PhysicalDiagram_1
Author:	VANDRUNENGE Date : 2009-02-26
Version :	3

CONTOUR_FT			
<u>FMF_OBJECT_ID</u>	NUMBER(13)	<pk>	not null
ELEVATION	NUMBER(11,1)		not null
LOCATION_ACCURACY	VARCHAR2(25)	<fk>	null
SOURCE_SCALE	VARCHAR2(15)		null
CREATION_METHODODOGY	VARCHAR2(30)		null
EXT_EFFECTIVE_DATETIME	DATE		null
EXT_EXPIRY_DATETIME	DATE		null
EFFECTIVE_DATETIME	DATE		not null
EXPIRY_DATETIME	DATE		null
SHAPE	NUMBER		null

CONTOUR_DBF_VW
OBJECT_ID
DESCR
GUT_NUMBER
LABEL
ELEVATION
SRCE_SCALE
ACCURACY
METHODOL
EFF_DATE

LOCATION_ACCURACY - LOCATION_ACCURACY

LOCATION_ACCURACY_LIST			
<u>LOCATION_ACCURACY</u>	VARCHAR2(25)	<pk>	not null
EFFECTIVE_DATETIME	DATE		not null
EXPIRY_DATETIME	DATE		null

Data Class Table Descriptions

Table	CONTOUR_DBF_VW			
ID	Column Name	Type	Mandatory	Short Name
	Desc: CONTOUR shapefile attributes exported by LIDS (in arc.dbf).			
1	OBJECT_ID System-generated object identifier, unique at the application level.	NUMBER(13,0)	Yes	OBJECT_ID
2	DESCR Translated GUT_NUMBER (n/a).	CHAR	No	DESCR
3	GUT_NUMBER Identifier of the Geographic Unit Type (n/a).	NUMBER(38,0)	No	GUT_NUMBER
4	LABEL Label for identifying the feature.	VARCHAR2(4)	No	LABEL
5	ELEVATION Amount in metres that a geographic entity is above mean sea level. (Source: CONTOUR.ELEVATION)	NUMBER(11,1)	Yes	ELEVATION
6	SRCE_SCALE The scale of the vector base or aerial photography, the cell resolution of a grid, or the pixel resolution of an image used to record the location of the feature. Examples: For a vector source or aerial photography: 1:10,000 1:20,000 1:250,000. For a grid or imagery source: 1 km, 10 m, 15 seconds. (Source: CONTOUR.SOURCE_SCALE)	VARCHAR2(15)	No	SRCE_SCALE
7	ACCURACY The degree of conformity or closeness of a measurement within the database to its true value in the world. (Source: CONTOUR.LOCATION_ACCURACY)	VARCHAR2(25)	No	ACCURACY
8	METHODOL The method used to generate the lines for contours. For example, contours could be generated using a digital terrain model or digitized from hard copy maps. (Source: CONTOUR.CREATION_METHODODOLOGY)	VARCHAR2(30)	No	METHODOL
9	EFF_DATE Date/time that the record was created in the LIO database.	VARCHAR2(10)	No	EFF_DATE

Table CONTOUR_FT

Desc: A continuous line formed of vertices located at a constant elevation from mean sea level (MSL). It is used for a description of the terrain relief.

ID	Column Name	Type	Mandatory	Short Name
1	FMF_OBJECT_ID System generated identifier, unique at the application level.	NUMBER(13,0)	Yes	OBJECT_ID
2	ELEVATION Amount in metres that a geographic entity is above mean sea level.	NUMBER(11,1)	Yes	ELEVATION
3	LOCATION_ACCURACY The degree of conformity or closeness of a measurement within the database to its true value in the world. Valid Values: See table LOCATION_ACCURACY_LIST in Appendix for list of valid values.	VARCHAR2(25)	No	ACCURACY
4	SOURCE_SCALE The scale of the vector base or aerial photography, the cell resolution of a grid, or the pixel resolution of an image used to record the location of the feature. Examples: For a vector source or aerial photography: 1:10,000 1:20,000 1:250,000. For a grid or imagery source: 1 km, 10 m, 15 seconds.	VARCHAR2(15)	No	SRCE_SCALE
5	CREATION_METHODODOLOGY The method used to generate the lines for contours. For example, contours could be generated using a digital terrain model or digitized from hard copy maps.	VARCHAR2(30)	No	METHODOL

Table GEOG_UNIT

Desc: Note: The full GEOG_UNIT table is not included here. For the full description, please see the Warehouse Data Class Description Report for Common Tables.

ID	Column Name	Type	Mandatory	Short Name
1	FMF_OBJECT_ID System-generated object identifier, unique at the application level.	NUMBER(13,0)	Yes	OBJECT_ID
3	GEOG_UNIT_TYPE_NUM Identifier of the Geographic Unit Type. Valid Values: 2693 Contour - Land (expired)	NUMBER(7,0)	Yes	GUT_NUMBER

Table LOCATION_ACCURACY_LIST

Desc: List of valid LOCATION_ACCURACYs.

ID	Column Name	Type	Mandatory	Short Name
1	LOCATION_ACCURACY	VARCHAR2(25)	Yes	ACCURACY
The accuracy of the location of the feature at an OBM scale. The degree of conformity or closeness of a measurement to the true value.				

Appendix

Lookup Tables

These tables are lookup tables containing codes and associated descriptive values.

Table Name: Location Accuracy List

LOCATION_ACCURACY	EXPIRY_DATETIME
AC Accurate (to 10m)	2006-10-30 10:54 AM
RE Reliable (to 100m)	2006-10-30 10:54 AM
AP Approximate (to 500m)	2006-10-30 10:54 AM
MO Moderate (to 1000m)	2006-10-30 10:54 AM
GE General (to 10,000m)	2006-10-30 10:54 AM
VG Vague (to 100,000m)	2006-10-30 10:54 AM
^ Data Load	2006-10-30 10:54 AM
VA Very Accurate (to 2m)	2006-10-30 10:54 AM
Within 1 metre	
Within 2 metres	
Within 5 metres	
Within 10 metres	
Within 20 metres	
Within 50 metres	
Within 100 metres	
Within 200 metres	
Within 500 metres	
Within 1000 metres	
Within 2000 metres	
Within 5000 metres	
Within 10,000 metres	
Over 10,000 metres	
Not Applicable	

Appendix (continued)

Date Information

Note that the format for date attribute columns is yyyy-mm-dd-hh:mm:ss. An example is 1998-02-16-00:00:00.

Standard date columns are shown on the data model diagram, but to save space are not repeated for each of the detailed table descriptions. The descriptions below apply to all of them.

Column Name	Type	Man	Short Name
EFFECTIVE_DATETIME	DATE	Yes	EFF_DATE
For subscription: Date/time that the record was created in the LIO database. For publication: Date/time that the record was created in the source database.			
EXPIRY_DATETIME	DATE	No	EXP_DATE
For subscription: Date/time the record is no longer valid in the LIO database. For publication: Date/time the record is no longer valid in the source database.			
EXT_EFFECTIVE_DATETIME	DATE	Yes	EXT_EFF_DT
For subscription: Date/time that the record was created in the source database. For publication: not applicable.			
EXT_EXPIRY_DATETIME	DATE	No	EXT_EXP_DT
For subscription: Date/time the record is no longer valid in the source database. For publication: not applicable.			

All tables contain EFFECTIVE_DATETIME and EXPIRY_DATETIME.
All tables except lookup tables also contain EXT_EFFECTIVE_DATETIME and EXT_EXPIRY_DATETIME.