



National Road Network

Feature Catalogue Segmented View

Edition 2.0

2007-05-31

Scope: Location, Transportation

**Natural Resources Canada
Earth Sciences Sector
Centre for Topographic Information
2144, King Street West, Suite 010
Sherbrooke (Quebec) Canada
J1J 2E8**

Telephone: +01-819-564-4857
1-800-661-2638 (Canada and USA)

Fax: +01-819-564-5698

E-mail: support Geobase@NRCan.gc.ca

URL: <http://www.geobase.ca>

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GeoBase®

REVISION HISTORY

Date	Edition	Description
2003-01-10	1.0	Original edition.
2007-05-31	2.0	<p>Updates for NRN edition 2.0</p> <ul style="list-style-type: none"> - Reformatting of the document and review of some definitions. - Addition of classes for addressing and associated attributes: <ul style="list-style-type: none"> • Address Range; • Street Place Name; • Alternate Name Link. - Addition of addressing attributes on the Road Segment feature: <ul style="list-style-type: none"> • Address Range NID; • Address Range Digitizing Direction Flag; • Official Place Name; • Official Street Name Concatenated; • First House Number; • Last House Number. - Renaming of attributes: <ul style="list-style-type: none"> • National Road Class renamed Functional Road Class; • Acquisition Provider renamed Provider; • Network Linear Element NID renamed Road Element NID; • Obstruction Type renamed Blocked Passage Type. - Replacement of the attribute Acquisition or Revision Date by attributes Creation Date and Revision Date. <ul style="list-style-type: none"> • - Addition of an object metadata attribute: Coverage.

The description of features and attributes provided in this catalogue is largely based on the standard *ISO 14825 — Intelligent transport systems — Geographic Data Files (GDF) — Overall data specification* resulting from technical committee ISO / TC 204.

This catalogue was adapted from the international standard *ISO 19110 — Geographic information — Methodology for feature cataloguing* prepared by technical committee ISO/TC 211.

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ACRONYMS AND ABBREVIATIONS

CMAS:	Circular Map Accuracy Standard
DEM:	Digital Elevation Model
GPS:	Global Positioning System
ID:	Identifier
ISO/TC:	International Organisation for Standardisation, Technical Committee
NatProvTer:	National, Provincial, or Territorial
NID:	National Identifier
NRCan:	Natural Resources Canada
NRN:	National Road Network
UUID:	Universal Unique Identifier

TERMS AND DEFINITIONS

Attribute:

Characteristic of a feature. For example, number of lanes or pavement status.

Class:

Description of a set of objects that share the same attributes, operations, methods, relationships, and semantics. A class does not always have an associated geometry (e.g., address range class).

Feature:

Digital representation of a real world phenomenon.

Ferry Connection:

The average route a ferryboat takes when transporting vehicles between two fixed locations on the Road Network. Two Junctions always bound a Ferry Connection.

Network Linear Element:

Abstract class of a Road Element and Ferry Connection.

Object:

An object is an instance of a class.

Road Element:

A road is a linear section of the earth designed for or the result of vehicular movement. A Road Element is the representation of a road between Junctions. A Road Element is always bounded by two Junctions. A Road Element is composed of one or more than one contiguous Road Segments.

Segment:

Portion of a Network Linear Element that has a common set of defined characteristics (attributes).

Universal Unique Identifier (UUID)

The definition and method used for the generation of a Universal Unique Identifier is defined in the document *National Vector Data – Identification Rules* available on the GeoBase portal (www.geobase.ca), under the National Road Network Data section.

Object Metadata - (*Métadonnées d'objet*)

The attributes described in the section object metadata apply to all feature classes (except for Alternate Name Link).

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Planimetric Accuracy	The planimetric accuracy expressed in meters as the circular map accuracy standard (CMAS).															
	<p>Domain: [1..n]</p> <p>Data Type: Integer</p>															
Provider	The affiliation of the organization that generated (created or revised) the object.															
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Standard Version	The standard version associated to the features.															
	<p>Domain: [2.0]</p> <p>Data Type: Character (100)</p>															

[Return](#)**Feature Class:**

Name - (french name)	Is Abstract	Geometry
Address Range - (Intervalles d'adresse)	No	
Definition		
A set of attributes representing the address of the first and last building located along a side of the entire Road Element or a portion of it.		

Attribute Section:

Attribute Name	Attribute Definition												
Alternate Street Name NID (left, right)	The identifier used to link an address range to its alternate street name. A specific value is defined for the left and right sides of the Road Element.												
	Domain: A UUID or "None" when no value applies. Example: 69822b23d217494896014e57a2edb8ac Data Type: Character (32)												
Digitizing Direction Flag (left, right)	Indicates if the attribute event follows the same direction as the digitizing of the Road Element. A specific value is defined for the left and right sides of the Road Element.												
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First House Number (left, right)	The first house number address value along a particular side (left or right) of a Road Element. A specific value is defined for the left and right sides of the Road Element.												
	Domain: [-1..n] The value "0" is used when no value applies. The value "-1" is used when the value is unknown. Data Type: Integer												
First House Number Suffix (left, right)	A non-integer value, such as a fraction (e.g. ¼) or a character (e.g. A) that sometimes follows the house number address value. A specific value is defined for the left and right sides of the Road Element.												
	Domain: A non-integer value or "None" when no value applies. Data Type: Character (10)												
First House Number Type (left, right)	Method used to populate the address range. A specific value is defined for the left and right sides of the Road Element.												
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House Number Structure (left, right)	The type of house numbering (or address numbering) method applied to one side of a particular Road Element. A specific value is defined for the left and right sides of the Road Element.																					
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Official Street Name NID (left, right)	The identifier used to link an address range to its recognized official street name. A specific value is defined for the left and right sides of the Road Element.																					
	<p>Domain: A UUID or "None" when no value applies.</p> <p>Example: 69822b23d217494896014e57a2edb8ac</p> <p>Data Type: Character (32)</p>																					
Reference System Indicator (left, right)	An indication of whether the physical address of all or a portion of a Road Element is based on a particular addressing system. A specific value is defined for the left and right sides of the Road Element.																					
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	<ul style="list-style-type: none">2 Lot and Concession3 911 Measured4 911 Civic5 DLS Townships Dominion Land Survey, survey method dominant in the Prairie provinces.
Object Metadata	Refer to the attributes describe in the section object metadata.

[Return](#)**Feature Class:**

Name - (french name)	Is Abstract	Geometry
Alternate Name Link - (<i>Lien nom non officiel</i>)	No	
Definition		
A linkup table establishing one or many relations between address ranges and their non-official street and place names used or known by the general public.		

Attribute Section:

Attribute Name	Attribute Definition																																										
NID	A national unique identifier.																																										
	Domain: A UUID. Example: 69822b23d217494896014e57a2edb8ac Data Type: Character (32)																																										
Street Name NID	The NID of the non official street and place name.																																										
	Domain: A UUID. Example: 69822b23d217494896014e57a2edb8ac Data Type: Character (32)																																										
Creation Date	The date of data creation.																																										
	Domain: A date in the format YYYYMMDD or "Unknown". If the month or the day is unknown, corresponding characters are left blank. Examples: 20060630, 200606, 2006. Data Type: Character (8)																																										
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	Domain: A date in the format YYYYMMDD or "Unknown". If the month or the day is unknown, corresponding characters are left blank. Examples: 20060630, 200606, 2006.																																										

	Data Type: Character (8)
Standard Version	The standard version associated to the features.
	Domain: 2.0 Data Type: Character (100)

[Return](#)**Feature Class:**

Name - (french name)	Is Abstract	Geometry
Blocked Passage - (<i>Passage obstrué</i>)	No	Point
Definition		
Indication of a physical barrier on a Road Element built to prevent or control further access.		

Attribute Section:

Attribute Name	Attribute Definition												
Blocked Passage Type	The type of blocked passage as an indication of the fact whether it is removable.												
	<p>Domain:</p> <table border="1"> <thead> <tr> <th>Code</th> <th>Label</th> <th>Definition</th> </tr> </thead> <tbody> <tr> <td>-1</td> <td>Unknown</td> <td>A blocked passage for which the specific type is unknown.</td> </tr> <tr> <td>1</td> <td>Permanently Fixed</td> <td>The barrier cannot be removed without destroying it. Heavy equipment needed in order to allow further access. Examples of permanently fixed blocked passage are concrete blocks or a mound of earth.</td> </tr> <tr> <td>2</td> <td>Removable</td> <td>The barrier is designed to free the entrance to the (other side of the) Road Element that it is blocking. Further access easily allowed when so desired.</td> </tr> </tbody> </table>	Code	Label	Definition	-1	Unknown	A blocked passage for which the specific type is unknown.	1	Permanently Fixed	The barrier cannot be removed without destroying it. Heavy equipment needed in order to allow further access. Examples of permanently fixed blocked passage are concrete blocks or a mound of earth.	2	Removable	The barrier is designed to free the entrance to the (other side of the) Road Element that it is blocking. Further access easily allowed when so desired.
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NID	A national unique identifier.												
	<p>Domain: A UUID. Example: 69822b23d217494896014e57a2edb8ac Data Type: Character (32)</p>												
Road Element NID	The NID of the Road Element on which the point geometry is located.												
	<p>Domain: A UUID. Example: 69822b23d217494896014e57a2edb8ac Data Type: Character (32)</p>												
Object Metadata	Refer to the attributes describe in the section object metadata.												

[Return](#)**Feature Class:**

Name - (french name)	Is Abstract	Geometry
Ferry Connection Segment - (<i>Segment de liaison par transbordeur</i>)	No	Line
Definition		
The average route a ferryboat takes when transporting vehicles between two fixed locations on the road network.		

Attribute Section:

Attribute Name	Attribute Definition																																				
Ferry Segment ID	A unique identifier within a dataset assigned to each Ferry Connection Segment.																																				
	Domain: [1..n] Data Type: Integer																																				
Functional Road Class	A classification based on the importance of the role that the Road Element or Ferry Connection performs in the connectivity of the total road network.																																				
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NID	A national unique identifier.
	<p>Domain: A UUID. Example: 69822b23d217494896014e57a2edb8ac Data Type: Character (32)</p>
Route Name English (1, 2, 3, 4)	The English version of a name of a particular route in a given road network as attributed by a national or sub national agency. A particular Road Segment or Ferry Connection Segment can belong to more than one named route. In such cases, it has multiple route name attributes.
	<p>Domain: A complete English route name value such as "TransCanada Highway" or "None" when no value applies or "Unknown" when the value is not known. Data Type: Character (100)</p>
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	<p>Domain: A complete French route name value such as "Autoroute transcanadienne" or "None" when no value applies or "Unknown" when the value is not known. Data Type: Character (100)</p>
Route Number (1, 2, 3, 4, 5)	The ID number of a particular route in a given road network as attributed by a national or sub-national agency. A particular Road Segment or Ferry Connection Segment can belong to more than one numbered route. In such cases, it has multiple route number attributes.
	<p>Domain: A route number including possible associated non-integer characters such as "A" or "None" when no value applies. Examples: 1, 1A, 230-A, 430-28. Data Type: Character (100)</p>
Object Metadata	Refer to the attributes describe in the section object metadata.

[Return](#)**Feature Class:**

Name - (french name)	Is Abstract	Geometry
Junction - (<i>Jonction</i>)	No	Point
Definition		
<p>A feature that bounds a Road Element or a Ferry Connection. A Road Element or Ferry Connection always forms a connection between two Junctions and, a Road Element or Ferry Connection is always bounded by exactly two Junctions. A Junction Feature represents the physical connection between its adjoining Road Elements or Ferry Connections. A Junction is defined at the intersection of three or more roads, at the junction of a road and a ferry, at the end of a dead end road and at the junction of a road or ferry with a National, Provincial or Territorial Boundary.</p>		

Attribute Section:

Attribute Name	Attribute Definition															
Exit Number	The ID number of an exit on a controlled access thoroughfare that has been assigned by an administrating body.															
	<p>Domain: An ID number including possible associated non-integer characters such as "A" or "None" when no value applies. Examples: 11, 11A, 11-A, 80-EST, 80-E, 80E. Data Type: Character (10)</p>															
Junction Type	The classification of a Junction.															
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Object Metadata	Refer to the attributes describe in the section object metadata.															

[Return](#)**Feature Class:**

Name - (french name)	Is Abstract	Geometry
Road Segment - (<i>Segment routier</i>)	No	Line

Definition

A road is a linear section of the earth designed for or the result of vehicular movement. A Road Segment is the specific representation of a portion of a road with uniform characteristics.

Attribute Section:

Attribute Name	Attribute Definition												
Address Range Digitizing Direction Flag (left, right)	Indicates if the attribute event follows the same direction as the digitizing of the Road Element. A specific value is defined for the left and right sides of the Road Element.												
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Address Range NID	A UUID assigned to each particular block face address ranges.												
	<p>Domain: A UUID or "None" when no value applies. Example: 69822b23d217494896014e57a2edb8ac Data Type: Character (32)</p>												
Exit Number	The ID number of an exit on a controlled access thoroughfare that has been assigned by an administrating body.												
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First House Number (left, right)	The first house number address value along a particular side (left or right) of a Road Element. A specific value is defined for the left and right sides of the Road Element.												
	<p>Domain: [-1..n] The value "0" is used when no value applies. The value "-1" is used when the value is unknown. Data Type: Integer</p>												
Functional Road Class	A classification based on the importance of the role that the Road Element or Ferry Connection performs in the connectivity of the total road network.												
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Last House Number (left, right)	The last house number address value along a particular side (left or right) of a Road Element. A specific value is defined for the left and right sides of the Road Element.
	Domain: [-1..n] The value "0" is used when no value applies. The value "-1" is used when the value is unknown. Data Type: Integer
NID	A national unique identifier.
	Domain: A UUID. Example: 69822b23d217494896014e57a2edb8ac Data Type: Character (32)
Number Of Lanes	The number of lanes existing on a Road Element.
	Domain: [1..8] Data Type: Integer
Official Place Name (left, right)	Official name of an administrative area, district or other named area which is required for uniqueness of the street name.
	Domain: Derived from the Street and place names table. A specific value is defined for the left and right sides of the Road Element. Data Type: Character (100)
Official Street	A concatenation of the officially recognized Directional prefix, Street type prefix, Street

Name Concatenated (left, right)	name article, Street name body, Street type suffix, Directional suffix and Muni quadrant values.																		
	Domain: Derived from the Street and place names table. A specific value is defined for the left and right sides of the Road Element. Data Type: Character (100)																		
Paved Road Surface Type	The type of surface a paved Road Element has.																		
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Pavement Status	An indication of improvement applied to a Road surface.																		
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1	Paved	A road with a surface made of hardened material such as concrete, asphalt, tar gravel, or steel decks.																	
2	Unpaved	A road with a surface made of loose material such as gravel or dirt.																	
Road Segment ID	A unique identifier within a dataset assigned to each instance of Road Segment.																		
	Domain: [1..n] Data Type: Integer																		
Route Name English (1, 2, 3, 4)	The English version of a name of a particular route in a given road network as assigned by a national or sub national agency. A particular Road Segment or Ferry Connection Segment can belong to more than one named route. In such cases, it has multiple route name attributes.																		
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Route Number (1, 2, 3, 4, 5)	The ID number of a particular route in a given road network as assigned by a national or sub-national agency. A particular Road Segment or Ferry Connection Segment can belong to more than one numbered route. In such cases, it has multiple route number attributes.																		
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	Data Type: Character (100)																											
Structure ID	A national unique identifier assigned to the Road Segment or the set of adjoining Road Segments forming a structure. This identifier allows for the reconstitution of a structure that is fragmented by Junctions.																											
	Domain: A UUID or "None" when no value applies. Example: 69822b23d217494896014e57a2edb8ac Data Type: Character (32)																											
Structure Name English	The English version of the name of a road structure as assigned by a national or subnational agency.																											
	Domain: A complete structure name or "None" when no value applies or "Unknown" when the structure name is not known. Data Type: Character (100)																											
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Unpaved Road Surface Type	The type of surface an unpaved Road Element has.																											
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	2 Dirt	grading with gravel. Roads whose surface is formed by the removal of vegetation and/or by the transportation movements over that road which inhibit further growth of any vegetation.
Object Metadata	Refer to the attributes describe in the section object metadata.	

[Return](#)**Feature Class:**

Name - (french name)	Is Abstract	Geometry
Street and Place Names - (<i>Noms de rue et de lieu</i>)	No	
Definition		
A street name recognized by the municipality or naming authority and a name of an administrative area, district or other named area which is required for uniqueness of the street name.		

Attribute Section:

Attribute Name	Attribute Definition																																																						
Directional Prefix	A geographic direction that is part of the street name and precedes the street name body or, if appropriate, the street type prefix.																																																						
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Muni Quadrant	The attribute Muni quadrant is used in some addresses much like the directional attributes where the town is divided into sections based on major east-west and north-south divisions. The effect is as if multiple directional were used.																														
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Place Name	Name of an administrative area, district or other named area which is required for uniqueness of the street name.																														
	<p>Domain: The complete name of the place. Examples: Arnold's Cove, Saint-Jean-Baptiste-de-l'Îsle-Verte, Sault Ste. Marie, Grand-Sault, Grand Falls.</p> <p>Data Type: Character (100)</p>																														
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	<p>Municipality</p> <p>Subdivision of Regional District</p> <p>Subdivision of Unorganized</p> <p>Summer Village / Village estival</p> <p>Terre inuite</p> <p>Terres réservées</p> <p>Teslin land / Terre Teslin</p> <p>Town / Ville</p> <p>Township (Municipality) / Canton (Municipalité)</p> <p>Township / Canton</p> <p>United Township (Municipality) / Cantons-unis (Municipalité)</p> <p>Unorganized / Non-organisé</p> <p>Village / Village</p> <p>Without Designation (Municipality) / Sans désignation (Municipalité)</p>																																										
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Street Name Body	<p>The portion of the street name (either official or alternate) that has the most identifying power excluding street type and directional prefixes or suffixes and street name articles.</p>																																													
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	Centre
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	Chase
	Chemin
	Circle
	Circuit
	Close
	Common
	Concession
	Corners
	Côte
	Cour
	Court
	Cove
	Crescent
	Croft
	Croissant
	Crossing
	Crossroads
	Cul-de-sac
	Dale
	Dell
	Desserte
	Diversion
	Downs
	Drive
	Droit de passage
	Échangeur
	End
	Esplanade
	Estates
	Expressway
	Extension

	Farm
	Field
	Forest
	Front
	Gardens
	Gate
	Glade
	Glen
	Green
	Grounds
	Grove
	Harbour
	Haven
	Heath
	Heights
	Highlands
	Highway
	Hill
	Hollow
	Île
	Impasse
	Island
	Key
	Knoll
	Landing
	Lane
	Laneway
	Limits
	Line
	Link
	Lookout
	Loop
	Mall
	Manor
	Maze
	Meadow
	Mews
	Montée
	Moor
	Mount
	Mountain
	Orchard
	Parade

	Parc
	Park
	Parkway
	Passage
	Path
	Pathway
	Peak
	Pines
	Place
	Plateau
	Plaza
	Point
	Port
	Private
	Promenade
	Quay
	Rang
	Range
	Reach
	Ridge
	Right of Way
	Rise
	Road
	Rond Point
	Route
	Row
	Rue
	Ruelle
	Ruisseau
	Run
	Section
	Sentier
	Sideroad
	Square
	Street
	Stroll
	Subdivision
	Terrace
	Terrasse
	Thicket
	Towers
	Townline
	Trace

	<p>Trail</p> <p>Trunk</p> <p>Turnabout</p> <p>Vale</p> <p>Via</p> <p>View</p> <p>Village</p> <p>Vista</p> <p>Voie</p> <p>Walk</p> <p>Way</p> <p>Wharf</p> <p>Wood</p> <p>Woods</p> <p>Wynd</p>
Street Type Suffix	A part of the street name of a Road Element identifying the street type. A suffix follows the street name body of a Road Element.
	<p>Domain: Same domain as the attribute street type prefix.</p> <p>Data Type: Character (30)</p>
<u>Object Metadata</u>	Refer to the attributes describe in the section object metadata.

[Return](#)**Feature Class:**

Name - (french name)	Is Abstract	Geometry
Toll Point - (Poste de péage)	No	Point
Definition		
Place where a right-of-way is charged to gain access to a motorway, a bridge, etc.		

Attribute Section:

Attribute Name	Attribute Definition															
NID	A national unique identifier.															
	Domain: A UUID. Example: 69822b23d217494896014e57a2edb8ac Data Type: Character (32)															
Road Element NID	The NID of the Road Element on which the point geometry is located.															
	Domain: A UUID. Example: 69822b23d217494896014e57a2edb8ac Data Type: Character (32)															
Toll Point Type	The type of toll point.															
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2	Virtual Toll Booth	At a virtual point of toll payment, toll will be charged via automatic registration of the passing vehicle by subscription or invoice.														
3	Hybrid	Hybrid signifies a toll booth which is both physical and virtual.														
Object Metadata	Refer to the attributes describe in the section object metadata.															