

Land Information Ontario Data Description

ORW Crossing

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LIO Class Description

ORWN Crossing

Class Short Name: ORWNCROS

Version Number: 3

Class Description:

The location along the rail network where a track crosses another network. It identifies the location and type of crossing that traverses either on, above or below a track. A crossing includes any structure supporting that part of the track or facilitating the crossing. Crossings are often equipped with public warning signs and audio/visual signalling safeguards to control and protect vehicular and pedestrian traffic. --- This layer is part of the Ontario Railway Network (ORWN) suite of Data Classes that have been adapted from Natural Resources Canada GEOBASE National Railway Network (NRWN) standards. --- Please refer to the ORWN Data Guide for additional information about the use and context of information stored in this layer.

Abstract Class Name: SPSNT

Abstract Class Description:

Spatial Single-Point: An object is represented by ONE and ONLY ONE point. Examples: A cabin, bird nest, tower.

Tables in LIO Class:

ORWN Crossing

ORWN_CROSSING_FT

The location along the rail network where a track crosses another network. It identifies the location and type of crossing that traverses either on, above or below a track. A crossing includes any structure supporting that part of the track or facilitating the crossing. Crossings are often equipped with public warning signs and audio/visual signalling safeguards to control and protect vehicular and pedestrian traffic. --- This layer is part of the Ontario Railway Network (ORWN) suite of Data Classes that have been adapted from Natural Resources Canada GEOBASE National Railway Network (NRWN) standards. --- Please refer to the ORWN User-Guide for additional information about the use and context of information stored in this layer.

Column Name	Column Type	Mandatory	Short Name	Valid Values
OGF_ID	NUMBER(13,0)	Yes	OGF_ID	
System-generated object identifier, unique at the application level.				
NID	VARCHAR2(32)	Yes	NID	
National Identifier (NID) assigned to every Crossing feature in the National Railway Network (NRWN) geodatabase.				
CROSSINGID	VARCHAR2(32)	Yes	CROSSINGID	
Unique National Identifier (NID) assigned to the crossing when it is part of a set of neighbouring points forming an amalgamated crossing. --- Note: A value of "None" will be stored in this field when information is either not applicable or not available.				
LEVELCROSS	VARCHAR2(15)	Yes	LEVELCROSS	
Indicates the grade level of the crossing. --- The ORWN User-Guide provides the context of permissible values used in this field.				
CROSSINTYP	VARCHAR2(25)	Yes	CROSSINTYP	
The type of feature that intersects with the crossing. --- The ORWN User-Guide provides the context of permissible values used in this field.				
WARNINGSYS	VARCHAR2(20)	Yes	WARNINGSYS	
Type of warning signal installation at the crossing. --- The ORWN User-Guide provides the context of permissible values used in this field.				
ROADCLASS	VARCHAR2(20)	Yes	ROADCLASS	
The functional classification of the road feature that crosses the track in relation to the road network it belongs to. --- The ORWN User-Guide provides the context of permissible values used in this field.				
CROSSTYPNM	VARCHAR2(100)	Yes	CROSSTYPNM	
The name of the feature that crosses the track. --- Note: A value of "None" will be stored in this field when information is either not applicable or not available.				
ROUTENUMBE	VARCHAR2(10)	Yes	ROUTENUMBE	

Number assigned to the route at the crossing. --- Note 1: Defined as a character field to accommodate

alphanumeric Route Number values such as "17b". --- Note 2: A value of "None" will be stored in this field when information is either not applicable or not available.

CROSACCES	VARCHAR2(7)	Yes	CROSACCES
The accessibility of the road or trail at the crossing. --- The ORWN User-Guide provides the context of permissible values used in this field.			
TCID	NUMBER(9,0)	Yes	TCID
Unique number assigned to the crossing by Transport Canada. --- Note: A value of -1 will be stored in this field if information is not available or applicable.			
TRACKNID	VARCHAR2(32)	Yes	TRACKNID
The track that this crossing is associated to. --- National Identifier (NID) assigned to every Track feature in the National Railway Network (NRWN) geodatabase. --- Each Track feature is defined by a junction at both ends and is made up of one or more uniquely identified Track segments (See Track Segment ID description).			
TRACKNAME	VARCHAR2(100)	Yes	TRACKNAME
The track that this crossing is associated to. --- Name associated to the track by a national or sub national agency. --- Note: A value of "None" will be stored in this field when information is either not applicable or not available.			
TRACKCLASS	VARCHAR2(20)	Yes	TRACKCLASS
The track that this crossing is associated to. --- Functional classification based on the importance of the role that the track performs in the connectivity of the rail network. --- The ORWN User-Guide provides the context of permissible values used in this field.			
SUBDI1NID	VARCHAR2(32)	Yes	SUBDI1NID
Subdivision reference 1: National Identifier (NID) assigned to the subdivision. --- A subdivision is an administrative unit of a national or regional network of tracks used to transport freight and/or passengers. A Subdivision is identified by a name or a number, and/or a colour and is delimited by a junction point at each extremity. --- Note: A value of "None" will be stored in this field when information is either not applicable or not available.			
SUBDI1NAME	VARCHAR2(100)	Yes	SUBDI1NAME
Subdivision reference 1: Name, number or colour associated to the subdivision. --- Note: A value of "None" will be stored in this field when information is either not applicable or not available.			
SUBD1DIST	NUMBER(5,2)	Yes	SUBD1DIST
Subdivision reference 1: Distance at which the crossing is positioned along the subdivision. The unit of measurement is identified in the associated Unit of Distance field. --- Note: A value of -1 will be stored in this field if distance information is not available or applicable.			
SUB1UNITDI	VARCHAR2(9)	Yes	SUB1UNITDI
Subdivision reference 1: The unit of distance used by a railway company for associated subdivision distance values expressed as either Mile, Kilometre or Unknown.			
SUB1DISTY	VARCHAR2(15)	No	SUB1DISTY
Subdivision reference 1: A qualifier about the value stored in the Subdivision 1 Distance field. It describes the type of distance associated to a track feature. --- The ORWN User-Guide provides the context of permissible values used in this field.			
SUBDI2NID	VARCHAR2(32)	No	SUBDI2NID
Subdivision reference 2: See description for Subdivision 1 NID			

SUBDI2NAME	VARCHAR2(100)	No	SUBDI2NAME
Subdivision reference 2: See description for Subdivision 1 Name.			
SUBD2DIST	NUMBER(5,2)	No	SUBD2DIST
Subdivision reference 2: See description for Subdivision 1 Distance.			
SUB2UNITDI	VARCHAR2(9)	No	SUB2UNITDI
Subdivision reference 2: See description for Subdivision 1 Unit of Distance.			
SUB2DISTY	VARCHAR2(15)	No	SUB2DISTY
Subdivision reference 2: See description for Subdivision 1 Distance Type.			
ADMINAREA	VARCHAR2(7)	Yes	ADMINAREA
The Administrative Area covered by this dataset. Limited to the extents of the Province of Ontario for the Ontario Railway Network (ORWN) data.			
SPECVERS	VARCHAR2(5)	Yes	SPECVERS
Version number of the GEOBASE standards used to create this dataset.			
SECURCLASS	VARCHAR2(12)	Yes	SECURCLASS
The security classification of the dataset as determined by Natural Resources Canada for the National Railway Network (NRWN) information. --- Data for the NRWN derived Ontario Railway Network (ORWN) are deemed to be "Unclassified".			
GEOCREDATE	VARCHAR2(8)	Yes	GEOCREDATE
The character date that the spatial data was created (Format: YYYYMMDD). --- Note: If the month or day is not known, the corresponding characters are left blank.			
GEOREVDATE	VARCHAR2(8)	No	GEOREVDATE
The character date that the spatial data was revised (Format: YYYYMMDD). --- Note: If the month or day is not known, the corresponding characters are left blank.			
GEOACQTECH	VARCHAR2(25)	Yes	GEOACQTECH
The type of data source or technique used to populate (create or revise) the geometry (spatial) data. - - The ORWN User-Guide provides the context of permissible values used in this field.			
GEOACCURA	NUMBER(3,0)	Yes	GEOACCURA
The planimetric accuracy of the represented feature expressed in (whole) metres as a circular map accuracy standard (CMAS). --- The value in this field represents the accuracy difference between the mapped feature against its real-world location. For example, a value of 10 metres for a mapped feature suggests that a person should be able to find the represented real-world feature within 10 metres of its mapped coordinates.			
GEOPROVIDE	VARCHAR2(25)	Yes	GEOPROVIDE
The affiliation of the organization that generated (created or revised) the geometry (spatial) data. --- The ORWN User-Guide provides the context of permissible values used in this field.			
ATTCREDATE	VARCHAR2(8)	Yes	ATTCREDATE
The character date that the attribute data was created (Format: YYYYMMDD). ----- Note: If the month or day is not known, the corresponding characters are left blank.			
ATTREVDATE	VARCHAR2(8)	No	ATTREVDATE

or day is not known, the corresponding characters are left blank.

ATTACQTECH	VARCHAR2(25)	Yes	ATTACQTECH
The type of data source or technique used to populate (create or revise) the attribute data. --- The ORWN User-Guide provides the context of permissible values used in this field.			

ATTPROVIDE	VARCHAR2(25)	Yes	ATTPROVIDE
The affiliation of the organization that generated (created or revised) the attribute data. --- The ORWN User-Guide provides the context of permissible values used in this field.			

EFFECTIVE_DATETIME	DATE	Yes	EFF_DATE
Date/time the record was created or last modified in the business area source database.			

SHAPE	SDO_GEOMETRY	No	SHAPE
Geometry attribute.			
