

Land Information Ontario Data Description

Building to Scale

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LIO Class Description

Building to Scale

Class Short Name: BUILDSCA

Version Number: 3

Class Description:

Landmarks (buildings and structures) that are permanent in nature. Buildings to scale must have one side larger than 50 metres for 1:20,000 scale data or one side larger than 30 metres for 1:10,000 data.

Abstract Class Name: SPSNTPOLY

Abstract Class

Description:

Abstract Spatial Single-Non-Tessellating-Polygon User Object. One and only one polygon forms a single object. Polygons may NOT overlap. However, holes, gaps and islands are allowed. Examples of this are sub classes that may fall under this class are lakes wetlands, ANSIs, etc.

Metadata URL:

Tables in LIO Class: Building to Scale

BUILDING_TO_SCALE_FT

A building is defined as a structure with permanent walls and roofed construction. When structures have one dimension larger than 50 metres for the 1:20000 scale and larger than 30 metres for the 1:10000 scale, they are considered to be polygons. Smaller structures should be considered points and entered in the Building as Symbol data class.

Column Name	Column Type	Mandatory	Short Name	Valid Values
OGF_ID	NUMBER(13,0)	Yes	OGF_ID	
Ontario Geospatial Feature identifier (OGF ID). A unique numeric provincial identifier assigned to each object.				
BUILDING_TYPE	VARCHAR2(30)	No	BUILDING_T	'Airport - Hangar', 'Airport - Terminal', 'Arena', 'Armoury', 'Barn Machinery Shed', 'Boathouse', ... (See BUILDING_TYPE_LIST table)
A general classification of a building, often by use, such as educational building, religious building, residence, police station, hospital or fire station.				
LOCATION_ACCURACY	VARCHAR2(25)	No	ACCURACY	'Not Applicable', 'Over 10,000 metres', 'Within 1 metre', 'Within 10 metres', 'Within 10,000 metres', 'Within 100 metres', ... (See LOCATION_ACCURACY_LIST table)
The degree of conformity or closeness of a measurement within the database to its true value in the world.				
SYSTEM_CALCULATED_AREA	NUMBER(16,3)	No	SYS_AREA	
The area of a polygon measured in square metres by the system.				
SYSTEM_CALCULATED_LENGTH	NUMBER(16,3)	No	SYS_LENGTH	
The perimeter of a polygon or length of a line measured in metres.				
GEOMETRY_UPDATE_DATETIME	DATE	No	GEO_UPT_DT	
Date/time the geometry was created or last modified in the source database.				
EFFECTIVE_DATETIME	DATE	Yes	EFF_DATE	
Date/time the record was created or last modified in the source database.				
SHAPE	SDO_GEOMETRY	No	SHAPE	
Geometry attribute.				

BUILDING_TYPE_LIST

A general classification of a building, often by use, such as educational building, religious building, residence, police station, hospital or fire station.

Column Name	Column Type	Mandatory	Short Name	Valid Values
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BUILDING_TYPE	VARCHAR2 (30)	Yes	BUILDING_T
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A general classification of a building, often by use, such as educational building, religious building, residence, police station, hospital or fire station.

BUILDING_TYPE_DESCR	VARCHAR2 (100)	Yes	TYPE_DESCR
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A description of the building type.

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

EXPIRY_DATETIME	DATE	No	EXP_DATE
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Date/time that the record was expired from use.

LOCATION_ACCURACY_LIST

List of valid location accuracies associated to a mapped feature.

Column Name	Column Type	Mandatory	Short Name	Valid Values
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**LIO Lookup Table Values:
BUILDING_TYPE_LIST**

BUILDING TYPE	BUILDING TYPE DESCR	EXPIRY DATETIME
Airport - Hangar	A building used to house/maintain aircraft.	
Airport - Terminal	A building used to process passengers and cargo for flight transportation.	
Arena	An enclosed large surface used for sporting activities	
Armoury	A building used by the militia	
Barn Machinery Shed	A large utility building on a farm complex.	
Boathouse	A building near water in which watercraft and/or water related equipment is stored.	
Cabin	A building in a remote or wilderness area	
City Hall	A building where the principal offices of a city administration are located.	
Coast Guard Station	A building housing the Coast Guard administrative offices.	
Commercial Building	A building used for commercial retail e.g. grocery, hardware, alcohol, convenience stores etc.	
Commercial Multi-Use	A building primarily used for commercial purposes including a secondary outlet e.g. Postal/Alcohol.	
Community Centre	A public building in which community gatherings and/or sporting activities are held	
Cottage	A dwelling, typically in a rural or semi-rural location usually for vacation use.	
Courthouse	A public building housing the judicial courts.	
Customs Post	Where travelers and vehicles crossing an international border are inspected.	
Dome	A building with arched roof used for storing salt or sand for road maintenance.	
Education Building	An institution for elementary, secondary or post-secondary education.	
Electric Power Station	A building where electricity is generated.	
Financial Institution	A building used for financial management e.g. banks, credit unions, investment houses.	

Fire Station	A building housing fire-fighting equipment.	
Fish Hatchery	A facility where fish are hatched under controlled conditions.	
Gas and Oil Facility	A structure dedicated to the production or distribution of gas and oil products.	
Generic/Unknown	A unspecified building.	
Government, Federal	A building operated by the Federal Government.	
Government, Municipal	A building operated by a Municipal Government.	
Government, Provincial	A building operated by the Provincial Government.	
Grain Elevator	Used for the storage of grain, usually located along a railway.	
Greenhouse	A building covered with a transparent material in which plants are grown.	
Hall	A building used for public assembly.	
Highway Service Centre	A building which provides automotive services and restaurant facilities.	
Highway Weigh Scale	A complex along a highway for weighing commercial vehicles.	
Hospital	An institution where sick or injured people receive medical care.	
Industrial Building	A building for processing/preserving raw materials, manufacture products, or produce energy outputs.	
Library	A building in which books, periodicals, newspapers and audio-visual media, are stored for loan.	
Lodging Facilities	A building where sleeping accommodations are rented.	
Medical Centre	Replaces a full service hospital in satellite communities or other area without hospital services.	
Municipal Hall	Where the main offices of a municipal administration are located.	
Museum	A public building set aside for the exhibition of natural, historic, artistic, or scientific objects	
Observatory	A building equipped for astronomical observations.	
Outbuilding	An outbuilding (i.e. garage, shed, outhouse, sauna).	
Parliament Building	Where the elected or appointed members of provincial or federal governments meet and enact laws.	
Penal Building	A facility for confining or rehabilitating persons convicted of breaking the law.	

Police Station	The main offices of a local or regional police force, including RCMP.	
Post Office	A building used or under licence by Canada Post for sending and receiving mail and / or parcels.	
Railway Station	A building along a railway where the train stops to load and unload passengers or freight.	
Recreation Camp	An area used for commercial tourist operations with a focus on outdoor activities.	
Religious Building	A building serving as a place of worship or residence for a religious order.	
Residence	A private dwelling place.	
Sanatorium	A building used for the care and rehabilitation of people with mental or physical disorders.	
Satellite Tracking Station	A building containing receiving devices to record information from satellites.	
Senior Citizens Home	A residence where care is provided to the elderly.	
Sewage Plant	A building primarily used for the collection and treatment of sewage.	
Shopping Centre	A building which contains a large number of individual retail outlets.	
Sportsplex	Provides facilities for various sporting and recreational activities.	
Tobacco Kiln	A permanent heated enclosure used for drying tobacco.	
Trading Post	A building in a remote area where goods are purchased or exchanged.	
Warden/Ranger Station	A building housing national/provincial park or forestry administrative offices.	
Youth Camp	An area used for commercial tourist operations with a focus on outdoor activities for youth.	

LIO Lookup Table Values:
LOCATION_ACCURACY_LIST

LOCATION ACCURACY	EXPIRY DATETIME
Not Applicable	
Over 10,000 metres	
Within 1 metre	
Within 10 metres	
Within 10,000 metres	
Within 100 metres	
Within 1000 metres	
Within 2 metres	
Within 20 metres	
Within 200 metres	
Within 2000 metres	
Within 5 metres	
Within 50 metres	
Within 500 metres	
Within 5000 metres	
AC Accurate (to 10m)	2007-01-12
AP Approximate (to 500m)	2007-01-12
GE General (to 10,000m)	2007-01-12
MO Moderate (to 1000m)	2007-01-12
RE Reliable (to 100m)	2007-01-12
VA Very Accurate (to 2m)	2007-01-12
VG Vague (to 100,000m)	2007-01-12
^ Data Load	2007-01-12

**LIO Table Relationships for Class:
Building to Scale**

BUILDING_TO_SCALE_FT	<p align="center">←-----→ BUILDING_TO_SCALE_FT.BUILDING_TYPE = BUILDING_TYPE_LIST.BUILDING_TYPE</p>	BUILDING_TYPE_LIST		
	<p align="center">-----→ CLASS_ALIAS_NAME.OGF_ID = BUILDING_TO_SCALE_FT.OGF_ID</p>	CLASS_ALIAS_NAME		
	<p align="center">-----→ CLASS_DATABASE_REFERENCE.OGF_ID = BUILDING_TO_SCALE_FT.OGF_ID</p>	CLASS_DATABASE_REFERENCE		
	<p align="center">-----→ CLASS_FIRE_DETAIL.OGF_ID = BUILDING_TO_SCALE_FT.OGF_ID</p>	CLASS_FIRE_DETAIL	<p align="center">←-----→ CLASS_FIRE_DETAIL.FUEL_CLASS = FIRE_FUEL_CLASS_LIST.FUEL_CLASS</p>	FIR
	<p align="center">-----→ CLASS_JUSTIFICATION.OGF_ID = BUILDING_TO_SCALE_FT.OGF_ID</p>	CLASS_JUSTIFICATION		
	<p align="center">-----→ CLASS_OTHER_INFORMATION.OGF_ID = BUILDING_TO_SCALE_FT.OGF_ID</p>	CLASS_OTHER_INFORMATION		
	<p align="center">-----→ CLASS_PARTY_ROLE.OGF_ID = BUILDING_TO_SCALE_FT.OGF_ID</p>	CLASS_PARTY_ROLE	<p align="center">←-----→ CLASS_PARTY_ROLE.ROLE_TYPE = ROLE_TYPE_LIST.ROLE_TYPE</p>	
	<p align="center">-----→ CLASS_SITE_ACCESS.OGF_ID = BUILDING_TO_SCALE_FT.OGF_ID</p>	CLASS_SITE_ACCESS	<p align="center">←-----→ CLASS_SITE_ACCESS.SITE_ACCESS_METHOD = SITE_ACCESS_METHOD_LIST.SITE_ACCESS_METHOD</p>	SIT
	<p align="center">-----→ CLASS_SOURCE.OGF_ID = BUILDING_TO_SCALE_FT.OGF_ID</p>	CLASS_SOURCE	<p align="center">←-----→ CLASS_SOURCE.SOURCE_NAME = SOURCE_LIST.SOURCE_NAME</p>	
	<p align="center">-----→ CLASS_SUPPORTING_MATERIAL.OGF_ID = BUILDING_TO_SCALE_FT.OGF_ID</p>	CLASS_SUPPORTING_MATERIAL		
	<p align="center">←-----→ BUILDING_TO_SCALE_FT.LOCATION_ACCURACY = LOCATION_ACCURACY_LIST.LOCATION_ACCURACY</p>	LOCATION_ACCURACY_LIST		