



Land Information Ontario

Infrastructure Web Map Service

Version 1.1
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Introduction

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Additional Information

For more information about this document, please contact Land Information Ontario at (705) 755-1878 or lio@ontario.ca.

Related Documentation

[Web Map Service Technical Overview](#)

LIO WMS follows the [OGC WMS specification](#) for versions *1.0, 1.1, 1.1.1*.

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Overview

This document provides technical information about the Infrastructure Web Map Service (WMS). URL's for the WMS functionality are provided as well as the layers and available attributes.

WMS URL

http://www.lio.ontario.ca/wmsconnector/com.esri.wsit.WMSServlet/wms_infrastructure

ACTION NAME	ACTION DESCRIPTION	URL
GetCapabilities	What the WMS can do and what feature types, as discrete layers it offers	http://www.lio.ontario.ca/wmsconnector/com.esri.wsit.WMSServlet/wms_infrastructure?VERSION=1.1.1&SERVICE=WMS&REQUEST=GetCapabilities
GetMap	Produce a map image	http://www.lio.ontario.ca/wmsconnector/com.esri.wsit.WMSServlet/wms_infrastructure?VERSION=1.1.1&REQUEST=GetMap&LAYERS=XXX,XXX,XXX&styles=&SRS=EPSG:4326&BBOX=-95.0,41.0,74.0,56.0&WIDTH=600&HEIGHT=400&FORMAT=XXX
GetFeatureinfo	Return attribute information as per layer definition	http://www.lio.ontario.ca/wmsconnector/com.esri.wsit.WMSServlet/wms_infrastructure?VERSION=1.1.1&REQUEST=GetFeatureInfo&query_layers=XXXX&LAYERS=XXXX&STYLES=&SRS=EPSG:4326&BBOX=-95.0,41.0,74.0,56.0&WIDTH=600&HEIGHT=400&info_format=text/xml&x=X&y=Y

Layers and Attributes

Layer	Largest Display Scale	Smallest Display Scale	Metadata Record	Attributes Available	SNIF Report	Comments
AIRPORT_AIRSTRIP	1:800000	N/A	Airport	FMF_OBJECT_ID LABEL_ITEM	Airport	
NTS_POWER_NETWORK_LINE	1:800000	N/A	Power Network Line at 250k	FMF_OBJECT_ID LABEL_ITEM	N/A	
RAILWAY_SEGMENT	1:100000	N/A	Railway Segment	RAILWAY_USE_CODE FMF_OBJECT_ID	N/A	
NTS_RAILWAY	N/A	1:100000	Railway at 250k	FMF_OBJECT_ID LABEL_ITEM	N/A	
ROAD_SEGMENT_NAMES	1:100000	N/A	Road Segment	FMF_OBJECT_ID LABEL_ITEM	Road Segment	
ROAD_SEGMENT	1:100000	N/A	Road Segment	FMF_OBJECT_ID LABEL_ITEM SYMBOL_ITEM	Road Segment	
NTS_ROAD	1:400000	N/A	Road at 250k	FMF_OBJECT_ID LABEL_ITEM SYMBOL_ITEM	N/A	
ROAD_600K	1:800000	N/A	Road at 600k	FMF_OBJECT_ID LABEL_ITEM SYMBOL_ITEM	Road at 600K	
TRANSPORT_POINT	N/A	N/A	Transport Point	FMF_OBJECT_ID LABEL_ITEM	Transport Point	
NTS_TRAIL	N/A	1:800000	Trail at 250k	FMF_OBJECT_ID LABEL_ITEM	N/A	

Layer	Largest Display Scale	Smallest Display Scale	Metadata Record	Attributes Available	SNIF Report	Comments
TRAIL_SEGMENT	1:800000	N/A	Trail Segment	FMF_OBJECT_ID LABEL_ITEM TRAIL_USE_CODE	Trail Segment	
TRANSPORT_LINE	1:100000	N/A	Transport Line	FMF_OBJECT_ID GEOG_UNIT_TYPE_NUM LABEL_ITEM	Transport Line	
UTILITY_LINE	1:800000	N/A	Utility Line	FMF_OBJECT_ID LABEL_ITEM	Utility Line	
ROAD_SEGMENT_1MILLION	N/A	N/A	Road Segment at 1 Million	FMF_OBJECT_ID LABEL_ITEM	Road Segment at 1 Million	
ORN_LOCAL	1:100000	N/A	Ontario Road Network	FMF_OBJECT_ID LABEL_ITEM FULLSTREET	ORN Segmented Address	
ORN_COLLECTOR	1:200000	N/A	Ontario Road Network	FMF_OBJECT_ID LABEL_ITEM FULLSTREET	ORN Segmented Address	
ORN_ARTERIAL	1:400000	N/A	Ontario Road Network	FMF_OBJECT_ID LABEL_ITEM FULLSTREET	ORN Segmented Address	
ORN_HIGHWAY	N/A	N/A	Ontario Road Network	FMF_OBJECT_ID LABEL_ITEM FULLSTREET	ORN Segmented Address	
ORN_FREEWAY	N/A	N/A	Ontario Road Network	FMF_OBJECT_ID LABEL_ITEM	ORN Segmented Address	

Layer	Largest Display Scale	Smallest Display Scale	Metadata Record	Attributes Available	SNIF Report	Comments
ORN_SEGMENT	N/A	N/A	Ontario Road Network	FMF_OBJECT_ID FULL_STREET_NAME_UPPER L_MUNICIPALITY_NAME R_MUNICIPALITY_NAME L_FIRST_HOUSE_NUMBER L_LAST_HOUSE_NUMBER R_FIRST_HOUSE_NUMBER R_LAST_HOUSE_NUMBER	ORN Segmented Address	
OTN_TRAIL_SEGMENT	N/A	N/A	OTN Trail Segment	FMF_OBJECT_ID ACTIVITY ENVIRONMENTAL_CONCERNS HAZARD_COMMENT MIN_WIDTH_CLEARANCE_METERS MIN_VERTICAL_CLEARANCE_METERS MAX_GRADE MAX_CROSS_SLOPE STRUCTURE STRUCTURE_DESCR SURFACE SURFACE_DETAIL FIRMNESS	OTN Trail Segment	

Layer	Largest Display Scale	Smallest Display Scale	Metadata Record	Attributes Available	SNIF Report	Comments
OTN_TRAILHEAD	N/A	N/A	OTN Trailhead	FMF_OBJECT_ID TRAIL_NAME TRAIL_ASSOCIATION TRAIL_ASSOCIATION_WEBSITE ACTIVITY LENGTH_KMS DESCRIPTION TRILLIUM_TRAIL_NETWORK_TYPE TRANS_CANADA_TRAIL_IND OFSC_TRAIL_DESIGNATION ORCKA_SWIFTWATER_CLASS UNESCO_WORLD_HERITAGE_SITE_IND SIGNAGE_IND ENVIRONMENTAL_CONCERNS HAZARD_COMMENT MIN_WIDTH_CLEARANCE_METERS MIN_VERTICAL_CLEARANCE_METERS MAX_GRADE MAX_CROSS_SLOPE OTC_TRAIL_CHALLENGE OTC_TRAIL_CHARACTER STRUCTURE_DESCR MAX_POSTED_SPEED_LIMIT_KMH	OTN Trailhead	
DAM_AND_BARRIER	N/A	N/A	Dam and Barrier	FMF_OBJECT_ID BARRIER_ID BARRIER_TYPE BARRIER_HEIGHT BARRIER_NAME BARRIER_OWNERSHIP_CLASS BARRIER_TO_FISH_FLG ANTHROPOGENIC_BARRIER_TYPE	Dam and Barrier	

Layer	Largest Display Scale	Smallest Display Scale	Metadata Record	Attributes Available	SNIF Report	Comments
				ANTHRO_DAM_IND ANTHRO_FLOW_REGULATION_FLG ANTHRO_STATUS_FLG ANTHRO_FISHWAY_PRESENCE_FLG NATURAL_BARRIER_TYPE NATURAL_BARRIER_LENGTH BARRIER_TYPE_OTHER_DESCR SOURCE_ID SOURCE_DETAIL JUSTIFICATION_ID LOCATION_ACCURACY COMMENTS		

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Revision Information

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2010-05-10	1.1	Kazin	Addition of Dam and Barrier class