



# **Land Information Ontario**

## **Topography Web Map Service**

Version 1.0  
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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](mailto: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 Topography 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\\_topography](http://www.lio.ontario.ca/wmsconnector/com.esri.wsit.WMSServlet/wms_topography)

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

## Layers and Attributes

Layer	Largest Display Scale	Smallest Display Scale	Metadata Record	Available Attributes	SNIF Report	Comments
CONTOUR	1:400000	N/A	<a href="#">Contour</a>	FMF_OBJECT_ID LABEL_ITEM	<a href="#">Contour</a>	
RECREATION_ACCESS_POINT	N/A	N/A	<a href="#">Recreation Point</a>	GEOG_UNIT_TYPE_NUM GEOG_UNIT_TYPE_NAME	<a href="#">Recreation Point</a>	<i>GEOG_UNIT_TYPE_NAME is the name associated with the number in the GEOG_UNIT_TYPE_NUM field</i>
NAMED_PLACE	1:80000	N/A	<a href="#">Geographic Name Extent</a>	GEONAME GEONAME_EXTENT_OBJECT_ID GEONAME_STATUS_CODE	<a href="#">Geographic Name Extent</a>	<i>GEONAME_STATUS_CODE is filtered to only include codes: A%, Q1, S1 and P</i>
BUILDING_AS_SYMBOL	1:100000	N/A	<a href="#">Building as Symbol</a>	FMF_OBJECT_ID LABEL_ITEM	<a href="#">Building as Symbol</a>	
BUILDING_TO_SCALE	1:100000	N/A	<a href="#">Building to Scale</a>	FMF_OBJECT_ID LABEL_ITEM	<a href="#">Building to Scale</a>	
DRAINAGE_LINE	1:100000	N/A	<a href="#">Drainage Line</a>	FMF_OBJECT_ID LABEL_ITEM GEOG_UNIT_TYPE_NUM	<a href="#">Drainage Line</a>	
DRAINAGE_POINT	N/A	N/A	<a href="#">Drainage Point</a>	FMF_OBJECT_ID LABEL_ITEM GEOG_UNIT_TYPE_NUM	<a href="#">Drainage Point</a>	
1_DEGREE_LATLON_GRID	N/A	N/A	N/A	MINUTES	<a href="#">Latitude</a> <a href="#">Longitude Line</a>	
5_DEGREE_LATLON_GRID	N/A	N/A	N/A	MINUTES FMF_OBJECT_ID	<a href="#">Latitude</a> <a href="#">Longitude Line</a>	
15_MINUTE_LATLON_GRID	N/A	N/A	N/A	FMF_OBJECT_ID LABEL_ITEM	<a href="#">Latitude</a> <a href="#">Longitude Line</a>	

Layer	Largest Display Scale	Smallest Display Scale	Metadata Record	Available Attributes	SNIF Report	Comments
NTS_250_GRID	N/A	N/A	<a href="#">NTS 250 Grid</a>	FMF_OBJECT_ID LABEL_ITEM	N/A	
NTS_50_GRID	N/A	N/A	<a href="#">NTS 50 Grid</a>	FMF_OBJECT_ID LABEL_ITEM	N/A	
OBM_INDEX	N/A	N/A	<a href="#">OBM Index</a>	FMF_OBJECT_ID LABEL_ITEM	<a href="#">OBM Index</a>	
NTS_HYDROGRAPHY_AREA	1:600000	N/A	<a href="#">Hydrography Area at 250K</a>	FMF_OBJECT_ID LABEL_ITEM	N/A	
NTS_HYDROGRAPHY_LINE	1:600000	N/A	<a href="#">Hydrography Line at 250K</a>	FMF_OBJECT_ID LABEL_ITEM	N/A	
MISC_LINE	1:100000	N/A	<a href="#">Miscellaneous Line</a>	FMF_OBJECT_ID LABEL_ITEM GEOG_UNIT_TYPE_NUM	<a href="#">Miscellaneous Line</a>	
MISC_POINT	1:100000	N/A	<a href="#">Miscellaneous Point</a>	FMF_OBJECT_ID LABEL_ITEM	<a href="#">Miscellaneous Point</a>	
PIT_OR_QUARRY	1:100000	N/A	<a href="#">Pit or Quarry</a>	FMF_OBJECT_ID LABEL_ITEM GEOG_UNIT_TYPE_NUM	N/A	
PROVINCE_1MILLION	N/A	N/A	<a href="#">Province at 1 Million</a>	FMF_OBJECT_ID LABEL_ITEM	<a href="#">Province at 1 Million</a>	
ROAD_SEGMENT_1MILLION	N/A	N/A	<a href="#">Road Segment at 1 Million</a>	FMF_OBJECT_ID LABEL_ITEM	<a href="#">Road Segment at 1 Million</a>	
SETTLEMENT_100K	N/A	N/A	<a href="#">Settlement at 100K</a>	FILTER_ITEM LABEL_ITEM FMF_OBJECT_ID LABEL_ITEM	<a href="#">Settlement at 100K</a>	
TANK	1:100000	N/A	<a href="#">Tank</a>	FMF_OBJECT_ID LABEL_ITEM	<a href="#">Tank</a>	

Layer	Largest Display Scale	Smallest Display Scale	Metadata Record	Available Attributes	SNIF Report	Comments
TOWER	1:100000	N/A	<a href="#">Tower</a>	FMF_OBJECT_ID LABEL_ITEM GEOG_UNIT_TYPE_NUM	<a href="#">Tower</a>	
WATER_AREA_1MILLION	N/A	N/A	<a href="#">Water Area at 1 Million</a>	FMF_OBJECT_ID LABEL_ITEM	<a href="#">Water Area at 1 Million</a>	
WATER_POLY_600K	1:1000000	N/A	<a href="#">Water Area @ 600K</a>	FMF_OBJECT_ID LABEL_ITEM	N/A	
WATER_AREA_PERMANENT_GL	1:500000	N/A	<a href="#">Water Area, Permanent</a>		N/A	
WATER_POLY_SEGMENT	1:500000	N/A	<a href="#">Water Polygon Segment</a>	FMF_OBJECT_ID LABEL_ITEM	<a href="#">Water Polygon Segment</a>	
WATER_LINE_1MILLION	N/A	N/A	<a href="#">Water Line @ 1 Million</a>	FMF_OBJECT_ID LABEL_ITEM	<a href="#">Water Line at 1 Million</a>	
WATER_LINE_600K	1:1000000	N/A	<a href="#">Water Line @ 600K</a>	FMF_OBJECT_ID LABEL_ITEM	N/A	
WATER_LINE_SEGMENT	1:500000	N/A	<a href="#">Water Line Segment</a>	FMF_OBJECT_ID LABEL_ITEM	<a href="#">Water Line Segment</a>	
WATER_LINE_PERMANENT_GL	1:500000	N/A	<a href="#">Water Line, Permanent</a>	FMF_OBJECT_ID LABEL_ITEM	N/A	
WOODED_AREA	1:400000	N/A	<a href="#">Wooded Area</a>	FMF_OBJECT_ID LABEL_ITEM	<a href="#">Wooded Area</a>	
WOODED_AREA_BY_TYPE	N/A	N/A	<a href="#">Wooded Area</a>	FMF_OBJECT_ID WOODED_AREA_TYPE	<a href="#">Wooded Area</a>	
BEAVER_DAM	N/A	N/A	<a href="#">Beaver Dam</a>	FMF_OBJECT_ID LABEL_ITEM	<a href="#">Beaver Dam</a>	
PROVINCE	N/A	N/A	<a href="#">Province</a>	FMF_OBJECT_ID LABEL_ITEM	<a href="#">Province</a>	

Layer	Largest Display Scale	Smallest Display Scale	Metadata Record	Available Attributes	SNIF Report	Comments
UTILITY_SITE	N/A	N/A	<a href="#">Utility Site</a>	FMF_OBJECT_ID LABEL_ITEM	<a href="#">Utility Site</a>	