



Ontario Road Information Exchange (ORIE) - Defined

Document Control

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DESCRIPTION	This document defines the Ontario Road Information Exchange (ORIE).
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AUDIENCE	<ol style="list-style-type: none"> 1. Ontario Good Roads Association (OGRA) 2. Transnomis Solutions Inc. (Transnomis) 3. OGRA ORIE Governance Committee 4. Elements to be publicly available
ASSOCIATED DOCUMENTS	<ol style="list-style-type: none"> 1. ORIE / Municipal511 Terms of Use (TOU) 2. ORIE / Municipal511 Application Programming Interface (API) 3. ORIE / Municipal511 XML Feed 4. ORIE Issue Types, Location Types, Traffic Impact Types List

Version History

Version	Date	Notes
1.0	190905_	Approved by OGRA and Transnomis
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Definitions

The following definitions support statements made in this document:

Road Information includes road closures, lane closures, detours, obstructions, restrictions, cautions, designated routes, dynamic sign messages, images from traffic cameras, and sensor information.

Authoritative Road Information is Road Information that is provided by the organizations that own, manage and maintain public roads, public safety authorities, railways, and contractors acting on their behalf.

Ontario Public Roads includes all roads in Ontario that are owned by municipal, provincial, federal and first nations governments, as well as private roads built for public use (including toll highways, ferries and ice roads); but exclude private industry, strata and rural roads that are used for the private purpose of the owners.

Description

The Ontario Road Information Exchange (ORIE) is an electronic Authoritative Road Information service that receives and aggregates road information from its clients, and makes the aggregated collection of Authoritative Road Information available to its clients and selected stakeholders.

ORIE is based on Transnomis Municipal511 web service that serves numerous Ontario municipalities. ORIE extends the aggregation and distribution features of the Transnomis Municipal511 web service to municipalities that wish to share and consume Authoritative Road Information using other applications, including those that are internally developed and maintained.

Ownership

ORIE is currently owned and operated by Transnomis Solutions Inc. Transnomis is open to other arrangements.



Vision

Owners, managers and travellers of Ontario public roads, be they human or machines (e.g., connected / autonomous vehicles), may quickly, efficiently, and effectively view and use Authoritative Road Information for all Ontario public roads.

The vision supports the following desired outcomes:

1. Reduced road information communication costs for municipalities.
2. Reduced road infrastructure damage for municipalities, railways and others.
3. Reduced emergency response call times for emergency responders.
4. Reduced delivery times for industry.
5. Reduced vehicle damage for all travellers.
6. The advancement of connected and autonomous vehicles.

Mission

The mission of the Ontario Road Information Exchange (ORIE) is to facilitate the efficient electronic distribution of Authoritative Road Information, in near real-time, from and between the electronic systems of authoritative sources of such information, with the electronic systems of distributors and redistributors of such information, to the direct benefit of Ontario's municipalities, and all travellers of Ontario Public Roads.

Goals

The following goals have been identified for ORIE:

1. Reliable, respected, valued service.
2. Good governance, by the owners/custodians of Ontario Public Roads.
3. Emergency responder community participation in governance.
4. Voice for key stakeholders, including the trucking industry.
5. Influence with navigation companies, e.g. use Authoritative Road Information, modify routing algorithms to keep traffic on arterial routes.

Objectives

The following objectives have been identified for ORIE:

1. Most complete collection of authoritative road closures, obstructions, and recommended detour routes for Ontario Public Roads.
2. Most complete collection of authoritative road condition and caution statements for Ontario Public Roads.



3. Most complete collection of authoritative truck and hazardous material routes for Ontario Public Roads.
4. Most complete collection of authoritative load restrictions, low overheads, clearance issues, and poor approaches for Ontario Public Roads.
5. Most complete collection of authoritative road condition statements for Ontario Public Roads.

Legal Framework

The service agreement between Transnomis and ORIE clients is defined by an evergreen Terms of Use (TOU), that is reviewed regularly by the ORIE Committee.

Governance

ORIE will be supported by a governance committee that is administered by the Ontario Good Roads Association (OGRA).

Funding

ORIE is a fee for service offering.

ORIE and Municipal511 clients pay Transnomis to post their Authoritative Road Information in ORIE, and to consume Authoritative Road Information shared by other clients.

Data Distribution Policy

1. Authoritative Road Information shared by ORIE clients through ORIE is available to other ORIE clients.
2. Authoritative Road Information shared by ORIE clients through ORIE may be presented on the Municipal511 web site at www.Municipal511.ca.
3. Authoritative Road Information shared by ORIE clients may be shared with Governing Committee approved road information distributors, including Waze, TomTom and HERE.
4. Authoritative Road Information shared by ORIE clients may be shared with emergency responder application vendors that serve ORIE and Municipal511 clients.