



Ontario Road Information Exchange (ORIE) Data Types

Document Control

TITLE	Ontario Road Information Exchange (ORIE) Data Types
STATUS	Current
DATE	2020-01-29
VERSION	2.0
REPLACES	1.0
DESCRIPTION	This document identifies data types used in the Ontario Road Information Exchange (ORIE), Municipal511, and the OGRA Municipal Alliance for Connected and Autonomous Vehicles in Ontario (MACAVO) services.
DOCUMENT OWNER	Transnomis Solutions Inc.
APPROVERS	<ol style="list-style-type: none"> 1. Ontario Good Roads Association (OGRA) ORIE Governance Committee 2. Transnomis Solutions Inc.
AUDIENCE	<ol style="list-style-type: none"> 1. OGRA ORIE Governance Committee 2. ORIE, Municipal511 and MACAVO stakeholders 3. Ontario Good Roads Association (OGRA) 4. Transnomis Solutions Inc.
References	

Version History

Version	Date	Notes
1.0	2019-11-04	Original
2.0	2020-01-23	Follows consultation with OGRA ORIE Governance Committee



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Data types supported

Municipal511 supports the following location types, issue types, and their impact on traffic, as well as CAV considerations.

Location types supported

- Issue Location
- Detour
- Detour – truck
- Detour – one way (coming soon)
- Detour – Emergency Detour Route (EDR)
- Access
- Egress

Issue types supported

- Road Issues/events
 - Collision
 - Construction
 - Debris
 - Disabled Vehicle
 - Emergency Detour Route (EDR)
 - Emergency Road Closure
 - Emergency Route
 - Ferry Service
 - Filming
 - Flooded Road
 - Incident
 - Investigation
 - Line Painting



- Maintenance
- New Traffic Control Device
- Other
- Fire Operation
- Police Operation
- Poor Road Conditions
- Railway Crossing Issue
- Road Closure – Long-term
- Road Closure – Short-term
- Sewer/Storm Repair
- Signal Light Failure
- Significant Weather Event
- Snow/Icy Conditions
- Special Event
- Traffic Control Change
- Traffic Light Issue
- Tree on Road
- Utility
- Water Main Break
- Water System Repair
- Whiteout Condition
- Wire on Road
- Road Restrictions/Cautions
 - Approach Issue
 - Ditch Clearing
 - Hazmat Route
 - Load Restriction
 - Long Connected Vehicle Route
 - Low Overhead
 - Low Wire
 - Milled Road
 - Narrow Road
 - No Winter Maintenance
 - Other
 - Road Clearance
 - Road Closure Long-term
 - Roadside Cutting
 - Roadside Spraying
 - Rough Road
 - Sharp Turn
 - Slippery Road
 - Steep Hill
 - Truck Route
 - Trucks Prohibited
 - Un-assumed Road



- Winter Road Conditions
 - Primary condition
 - Bare and Dry
 - Bare and Wet
 - Partly Ice Covered
 - Partly Snow Covered (includes centre bare, track bare, drifting)
 - Partly Snow Packed
 - Ice Covered
 - Snow Covered (includes slush)
 - Snow Packed
 - No data
 - Secondary condition
 - Bare and Dry
 - Bare and Wet
 - Partly Ice Covered
 - Partly Snow Covered (includes centre bare, track bare, drifting)
 - Partly Snow Packed
 - Ice Covered
 - Snow Covered
 - Snow Packed
 - No data
 - Visibility
 - Visibility is Good
 - Visibility is Fair
 - Visibility is Poor
 - No data
- OGRA MACAVO
 - Road preferences
 - Preferred (paved)
 - Preferred (unpaved)
 - Avoid
 - Maybe
 - AV considerations
 - School zones
 - Roundabout

Road Closure / Traffic impact types supported

- Alternating Traffic
- Bike Lane Closed
- Bus Lane Closed
- HOV Lane Closed
- Lane Closure
- Left Turn Closed
- Right Turn Closed
- No / Minimal Traffic Impact



- Road Closed – Local Traffic Only
- Road Closed – Emergency Access Only
- Road Closed – No Emergency Access
- Sidewalk Closed
- Shoulder Closed
- Unknown / Not Applicable

Geometry

- Follow Roads
- Polyline
- Polygon
- Circle