KINETIC® CORRIDORS

UNIFIED CORRIDOR MANAGEMENT ACROSS FREEWAYS AND ARTERIALS

OVERVIEW

Kinetic® Corridors is an integrated corridor management software that maximizes capacity of existing infrastructure and improves operational response times, creating more reliable and safer roadways while lowering emissions.

Kinetic Corridors uses advanced algorithms and highly configurable rules to ingest and analyze data to detect unsafe or inefficient conditions and respond to them automatically.

By proactively responding to recurring conditions, Kinetic Corridors frees up operators to focus on more complex scenarios that require adaptive thinking and manual intervention.

Kinetic Corridors can be used for a broad range of applications, such as:

- Queue detection and response
- Speed harmonization
- Weather responsive
- Wrong-way driver detection and response

Part of our landmark Kinetic Mobility platform, Kinetic Corridors leverages Kinetic Mobility's powerful event management tools and the robust functionality of its other modules (such as video, signs, and signals).

BENEFITS

- Optimize traffic flow, enhance road safety, and reduce congestion-related emissions
- Unify corridor-wide ITS device management and operations through a single user interface
- Dynamically respond to real-time conditions using pre-defined, automated, or recommended plans
- Configure and automate rules to expedite responses with little to no operator input
- Maximize capacity of existing infrastructure and create safer, more reliable, predictable road conditions
- Easily configure corridors using drag-and-drop editor

Unite field devices & data sources

Automated event detection & response

Powerful, easy-to-use interface

Integrate and scale to any size easily

Q FREE

FEATURES

CORRIDOR MANAGEMENT

- Build and configure unique corridors to manage, respond to, and prevent traffic events
- Easily add devices, update lane configurations, and assign zones to an existing corridor with industry-leading visual editor
- Manage corridors with little-to-no operator oversight using rules-based, automated responses

AUTOMATION

- Configure automated rules with simple but powerful condition/action automation specific to user and project needs
- Turn alerts, messages, and events into actionable, automatic responses
- Order, group, and nest automated rules for maximum flexibility and functionality
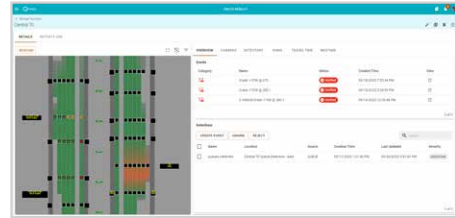
USER INTERFACE

- Dynamic user interface features an accurate visual representation of the corridor layout
- Intuitive point-and-click map to select, view, or manually change corridor field devices
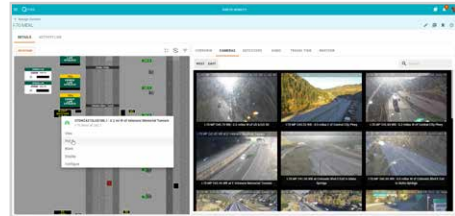
INTEGRATION

- Built on the powerful and flexible Kinetic Mobility platform that integrates fully into any traffic ecosystem
- Harness the full functionality of embedded Kinetic Mobility modules including Signs, Signals, Events, and Video
- Easily add devices, licenses, and more to build a custom corridor that fits any project scope
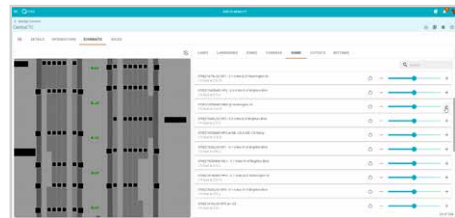
FLEXIBLE DEPLOYMENT OPTIONS

- On-premises or cloud-hosting
- Traditional or SaaS licensing

Quickly access corridor operations

Monitor video feeds as you manage your corridor

Build and customize your corridor with ease

KINETIC®
MOBILITY

Bring your traffic management data, tools, and teams together with Kinetic Mobility.

Transcending operational boundaries, the platform keeps your data safe and secure while allowing you to collaborate on common goals across local, intercity, and regional applications.

Make better decisions faster.

Contact us today to learn about our holistic approach to managing the ever changing mobility landscape.

PLATFORM FEATURES

Core functions across Kinetic Mobility applications

	Features	*Base standards/protocols*
Core functions	Central map and Entity Drawer	Supported basemaps: Bing, ESRI, HERE, MapBox, and OpenStreetMaps
	Custom views (location, zoom level, layer selection)	
	User-configurable dashboards	Configurable layers/overlays: GeoJSON, XYZ, Quad-Key, and WMS
	Bookmarks	
	System-wide Search	
	In-app help and documentation	
Access control	Single sign-on (SSO)	Supported authentication protocols: OpenID connect, SAML 2.0, OAUTH2, Active directory, AzureAD, Google
	Encrypted user management	
	User profiles, roles, and groups	
	Identity brokering and user federation	
	Role-based security at system, group, and device level	
User interface	Light, dark, and custom themes	Material UI – based design specification
	Responsive design	
Integration hub	Device creation & deletion	Camera Control: NTCIP 1205, ONVIF, and 13 proprietary protocols
	Device groups	Video Streaming: RTSP, HLS, DASH, MJPEG and WebRTC
	CAD Integration	Events: Integration with 20 different CAD vendor systems, Waze, and INRIX
	External system integration	Signs: NTCIP 1203 v1, 2, 3 and 16 proprietary protocols
Reports & Analytics	Dashboards	Export types: csv, Excel, PDF
	Import and export	
	Custom reports	
Architecture	Modular, plug-in architecture	Cloud native deployments: AWS, Azure, GCP
	Volume-based licensing	
	Scalable up to thousands of devices and users	
	SaaS or on-premises	

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