

OPTICOM™ | GPS Platform

An advanced, scalable Emergency Vehicle Preemption solution with unmatched precision and management capabilities

DESCRIPTION

Building on over 45 years of best-in-class solutions, the reliable and scalable Opticom GPS platform uses GPS positioning and radio transmission to enable faster and safer on-scene arrivals for emergency responders.

The Opticom GPS platform provides an advanced, dependable Emergency Vehicle Preemption (EVP) solution for departments of any size.

FEATURES

Emergency Vehicle Preemption

Using powerful and precise algorithms, the Opticom GPS-based system provides vehicle-to-intersection communications to enable reliable preemption.

Opticom EVP includes configuration and conditional programming capabilities, and offers multiple modes of communication to address obstruction or range requirements.

Opticom EVP supports distributed variants that use infrared, cellular and/or GPS-enabled intersection infrastructure.

Opticom EVP provides the ability to reduce response times by enabling a request for a green light at signalized intersections.

IntelliGreen for stations

Emergency personnel can preempt signals for one or more directions of traffic when leaving the station from the Opticom IntelliGreen unit. The always-ready system uses precise, secure

radio/GPS signal reliability that delivers faster performance. Control intersections to the left, right or both directions from the three-button base station unit.

Mutual aid cooperation

Nearby departments with Opticom vehicle equipment can be authorized to request preemption from intersections in adjacent regions during mutual aid responses.

Maintainability

When paired with Opticom CMS, software and firmware can be updated automatically or on-demand remotely, whenever vehicles are connected via Wi-Fi or a cellular modem.

Multimode operation

Multimode technology allows complete interoperability between IR and GPS components. When authorized, emergency responders with different Opticom technologies can seamlessly activate systems in adjacent regions.

Multimode technology allows departments to:

- migrate call and configuration history for analysis and reporting
- implement a full GPS solution while maintaining EVP and transit priority via IR communications

Built to expand

The Opticom GPS platform can be scaled from solving one problem corridor to outfitting an entire fleet and response area.

The Opticom GPS Platform allows emergency responders to get on the scene safer and faster by preempting traffic signals.

About GTT

Global Traffic Technologies, LLC

(GTT) is the manufacturer of

Opticom priority control systems and

Canoga™ traffic sensing systems.

SOLUTIONS FOR:



Fire



EMS



Law Enforcement



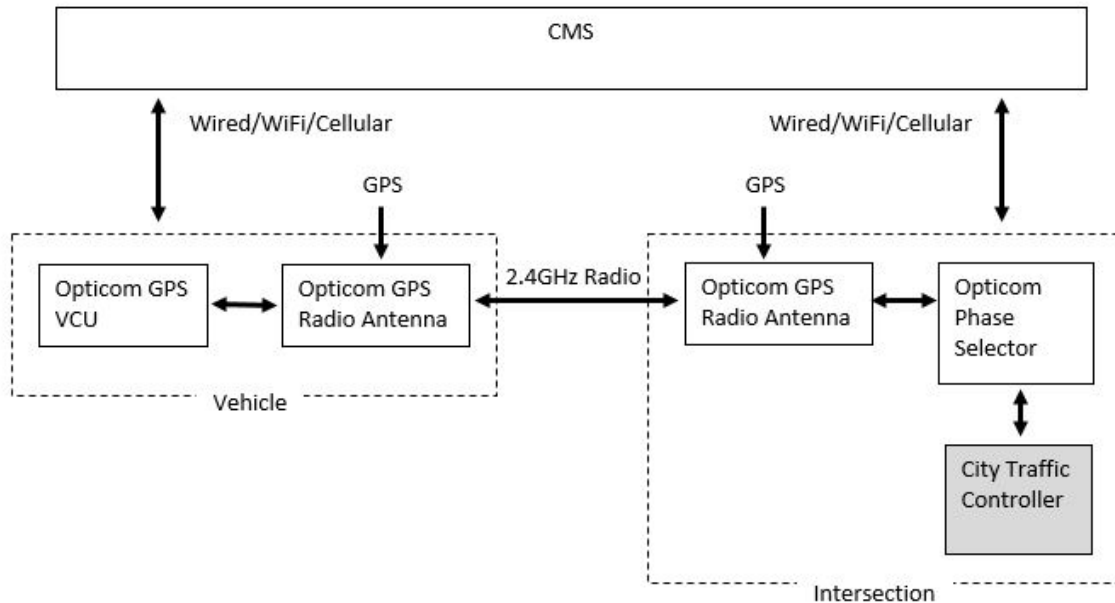
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TYPICAL ARCHITECTURES

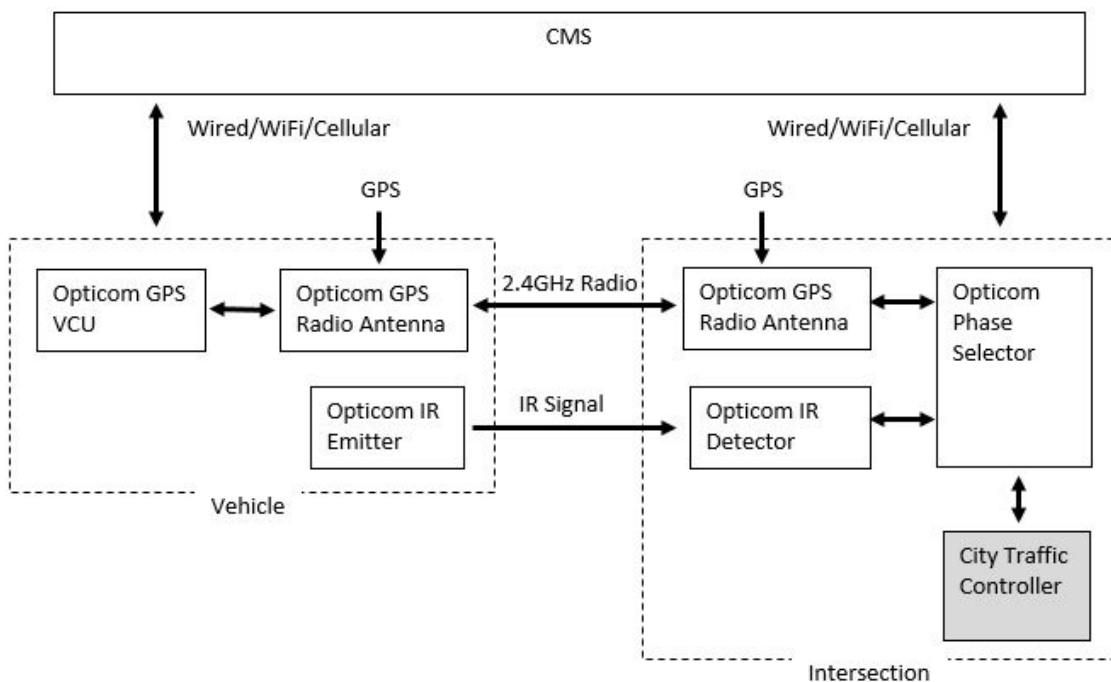
GPS system

Using Department of Defense satellites, the Opticom vehicle equipment calculates vehicle speed, heading and location. Opticom intersection equipment is programmed with an approach map to define corridors of priority control activity. As an Opticom GPS Platform-equipped vehicle enters the radio range of the intersection, the vehicle's speed, heading and position information is transmitted to the intersection receiver. The preemption request is sent to the Opticom phase selector in the intersection controller cabinet where the green light is altered as needed.



Multimode (IR and GPS) system

In a multimode system with IR and GPS components, the Opticom Vehicle Control Unit (VCU) sends a signal to the Opticom GPS radio antenna or IR emitter, which then transmits the preemption request via 2.4GHz radio or infrared light to the Opticom intersection receiver/detector. The receiver communicates with the Opticom phase selector in order to change the traffic light.



COMPONENTS

Intersection components

Model	Description	Product Number
764	Multimode phase selector	76-1000-1054-0
7614	Multimode phase selector-cellular	76-1000-1286-0
768	Multimode auxiliary interface panel	76-1000-1059-0
3100	Opticom GPS intersection radio unit	76-1000-1189-0
721	Detector, single channel, two directions (required for multimode operation)	78-8095-3853-7
1070	GPS installation cable	78-8125-0421-1
1060	GPS IntelliGreen control unit	76-1000-1062-0
138	IR detector cable (required for multimode operation)	78-8009-6556-4

Vehicle components

Model	Description	Product Number
1050	GPS / radio antenna	78-8118-6907-8
2100	High-priority radio/GPS control unit	76-1000-1150-0
792HM	Multimode strobe emitter, high priority, multimode only	76-1000-1149-0
794HM	Multimode emitter, high priority, multimode only	76-1000-1135-0

Management components

Model	Description	Product Number
CMS	Central Management Software	76-1000-1305-0

MANAGEMENT AND SERVICES

Managed Services

Managed services are the services needed to keep the system up and running to achieve optimal performance. Services include:

- Hosting
- Remote monitoring
- Performance tuning
- Updates and upgrades
- Repairs and replacements
- Reporting
- Help desk support

Services are provided by GTT's client services organization.

Central Management Software

Opticom CMS provides real-time data, so traffic engineers can retrieve activity logs, diagnose maintenance issues, upgrade firmware and troubleshoot equipment. It reduces operating costs, improves workflow and results in fewer technician trips to the field.

Warranty

From design, to manufacturing, to service and repair, every effort is made to deliver solutions that far exceed the warranty period. For complete warranty information visit www.gtt.com.

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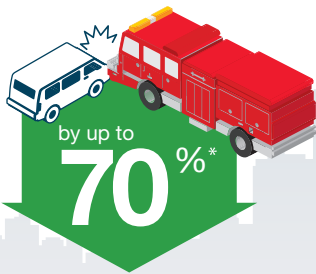
Proven technology with better results

Global Positioning System (GPS) technology and highly-secure radio communications power the Opticom GPS Platform – a robust, secure Emergency Vehicle Preemption (EVP) solution from GTT.

Opticom GPS-enabled systems offer unmatched precision and superior management capabilities that will allow your department to respond quickly and safely to emergencies.

Built on more than 45 years of Opticom signal priority performance and reliability, the Opticom GPS platform helps ensure safer, faster on-scene arrival—while maximizing resources and your investment.

REDUCE
INTERSECTION
**CRASH
RATES**



PREVENT
INJURIES
AND
RELATED
COSTS



IMPROVE
RESPONSE TIMES

by up to

25%*



OPTICOM™
BENEFITS

DECREASE
LIABILITY
FOR CRASHES
WITH OTHER
MOTORISTS



OFFER **QUICK
PAYBACK**
ON YOUR
INVESTMENT



**COMMUNICATE
AROUND CORNERS**
Send EVP requests around curves
and corners, over hills and overpasses

*Independent studies available upon request

SOLUTIONS FOR:



Fire



EMS



Law Enforcement

GLOBAL TRAFFIC TECHNOLOGIES



When every second counts

The Opticom™ GPS platform brings together a combination of proven hardware, advanced software and comprehensive services to enable faster and safer on-scene arrivals for departments of any size.

The GPS-enabled platform uses powerful and precise algorithms to enable industry-leading Opticom EVP.

Join other public service agencies and use Opticom for more effective mutual aid strategies and to resolve critical traffic management challenges.

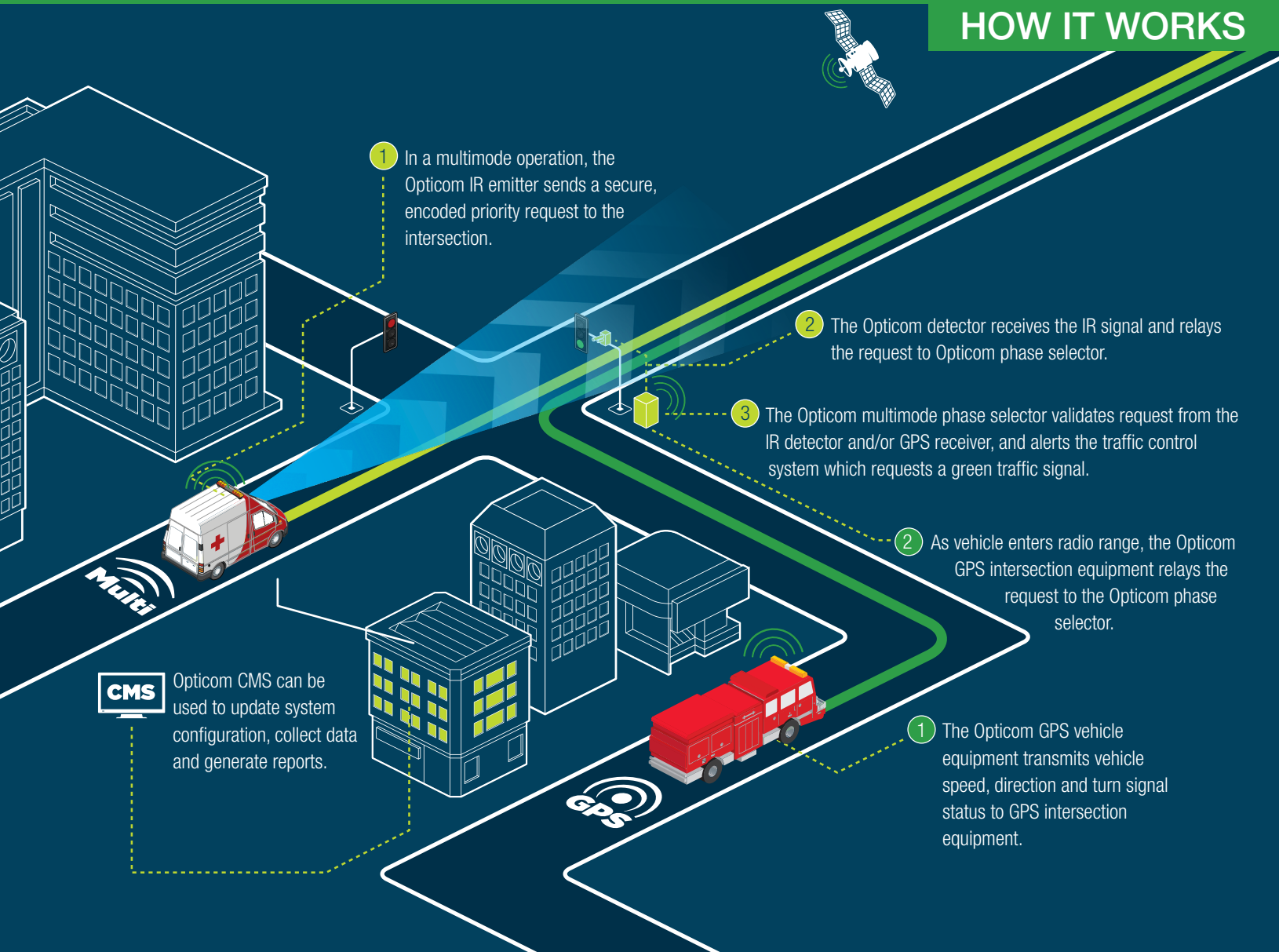
When combined with Opticom Central Management Software (CMS), the Opticom GPS platform provides the ability to monitor

and maintain system performance from a central location, including cloud-based analytics and reporting. Traffic managers can monitor and maintain system performance and update system software from anywhere Internet access is available.

Designed for interoperability, GPS-enabled components can communicate with Opticom IR components in a multimode system to allow for upgrades and mutual aid while maintaining emergency response and transit functionality.

Additional equipment and services can be added as an agency's needs evolve.

HOW IT WORKS



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