

# DPTIM

## Vehicle Priority with a Virtual Edge

### PRODUCT OVERVIEW



#### CENTRALISED SELECTIVE VEHICLE PRIORITY SYSTEM

DPTIM allows you to deliver selected vehicle and vessel priority across towns, cities and waterways using virtual detection zones to reduce congestion and improve network performance.

With DPTIM you can quickly and cost effectively reduce and improve journey time reliability along strategic routes without the cost and disruption of additional infrastructure - it's all done in software in the cloud.



#### REAL-TIME MAP BASED USER INTERFACE

A web-based drawing interface is used to easily map out virtual detector zones on the approaches to key junctions and stop points. Parameters by which priority decisions are made are easily set-up and changed using the system's configuration tool. When a vehicle or vessel is detected entering the zone, a number of analysis checks are undertaken and appropriate priority request sent to the control system.



#### A SEAMLESS, SPEEDY, VIRTUAL DETECTION SYSTEM

Suitable for use with a wide range of tracked vehicles including trams, buses and vessels. For example, with Dublin City Council's network, bus position data from the 1,000 vehicle fleet is processed, analysed and appropriate action taken to request the SCATS control system to change signal timings to provide priority on defined corridors throughout the City, smoothing and reducing journey times.

### BENEFITS



HIGHLY EFFECTIVE  
LOW COST AND  
SCALABLE SOLUTION



REDUCED  
CONGESTION AND  
ON-TIME ARRIVAL



REDUCTIONS IN  
JOURNEY TIMES  
AND QUEUEING



OPERATIONAL  
SERVICE  
IMPROVEMENTS

## KEY FEATURES



### DESIGNED TO MEET YOUR NEEDS

Cities are growing. DPTIM helps you meet the challenges

- Become a smarter city and network manager.
- Improve your public transport services.
- See better journey times.
- Balanced network operation.
- Reduced carbon footprint.
- Reduce congestion.
- Safer junction performance.
- Improving cooperation between transport operators and network owners.
- Better balanced network performance.
- Making better use of data.



### ACCESS TO DATA AND REPORTING TOOLS

Identify problem areas and aiding future planning

DPTIM reaches out and integrates with existing systems, gathering data into a central point. It analyses this data to deliver fast, accurate and easy to understand management information about vehicles across your town, city and waterways. Data on whether vehicles or vessels are in congestion, delayed, free-flowing or loading passengers is available in real-time from DPTIM's data feed. Reporting, data analysis and identification of problem areas is quick and easy. Using an open systems approach, we are able to integrate with existing planning and reporting tools for enhanced network performance understanding.



### A TOTAL SOLUTION

Delivering a centralised network response and reporting system

DPTIM has been created for network operators who wish to implement 'round the clock', cost-effective and environmentally friendly vehicle priority.

By integrating existing vehicle positioning and control systems using open communication standards implementation and operational costs are kept to a minimum. It does not matter where the position data comes from, so long as it's accurate and timely.

A web-based solution that is accessible from anywhere, anytime. Secure login facilities ensure only authorised access is granted.

It accommodates a comprehensive database management system for effective processing of data and comprehensive reporting; it stores and manages geospatial information that delivers improved situational awareness and fast identification of main problem areas.



### USER FRIENDLY

Delivering efficiencies and service improvements

- A web-based solution for ease of user access 24x7.
- Map-based user-interface displays the latest status of locations of vehicles and vessels mapping real-time data.
- A drawing interface allows users to quickly map out virtual detectors to be used as hot-spots and detector points across the network.
- Easily configurable for specific routes, journey patterns and can accommodate individual threshold values.
- A programmable scheduler automatically manages detector behaviour at different times of the day.



DPTIM Approved Distributors

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