



At a glance

- Helps transport planners build compliant and feasible routes, faster
- Minimises the impact of the London Lorry Control Scheme and major public events
- Functionality available with standard Paragon software
- For best results, use Paragon Route Control with Paragon Street Level Mapping
- Windows Operating System

Who can benefit from Paragon Route Control?

Route Control helps planners

- Observe lorry scheme regulations regarding vehicle size and weight during specific times
- Avoid peak traffic by using specific routes on different days at different times of day
- Avoid certain areas during major public events or scheduled roadworks
- Meet social responsibilities by avoiding sensitive sites altogether, such as schools
- Observe union-approved routes
- Adopt driver feedback about sensible alternative routes
- Reduce the risk of hijack or theft by avoiding high-risk areas

For transport offices responsible for planning hundreds of routes with multiple drops, time-sensitive route restrictions are a real challenge to manage. In addition to the huge number of variations, legitimate route deviations are flagged as exceptions which can then require lengthy post-route analysis by the transport office.

Paragon Route Control enables planners to build compliant routes based on pre-defined rules, providing a standard way to manage legitimate deviations including local authority HGV restrictions, road closures caused by major public events or health and safety compliant routes.

Since the London Lorry Control Scheme (LLCS) was first introduced, transport offices wanting to optimise their fleet operations in the Greater London area have struggled to create feasible plans that take into account the large number of HGV restrictions that apply at specific times of the day, week or month by truck type.

The same challenge is presented by many local authority HGV restrictions around the world, as well as major public events such as regular sports fixtures or concerts, and one-offs like the Rugby World Cup.

Whether due to congestion or road closures, the traffic implications of these types of event are significant and complex.

A game changer in route planning

When a driver deviates from the planned route, fleet monitoring systems flag that journey as an exception, and the transport office has to manually check each exception to see if it should be recorded as a breach or not.

Paragon Route Control allows customers to create rules that apply approved route deviations at specific times of the day, week or month by truck type, reducing the number of manual interventions required by the transport planner.

How does Paragon Route Control work?

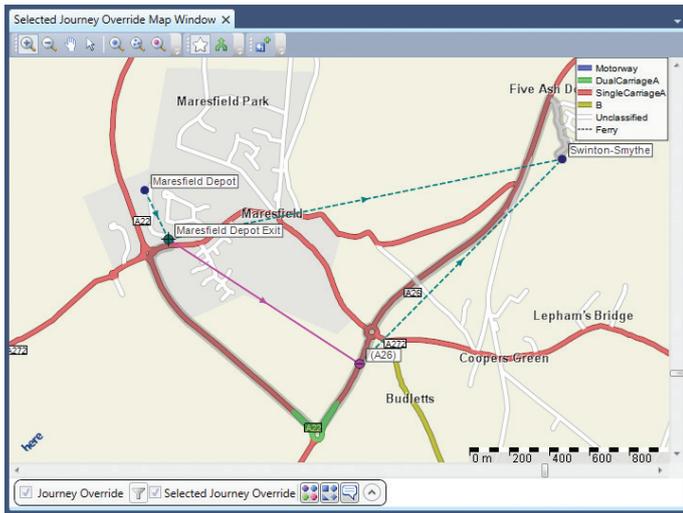
Standard Paragon routing and scheduling software calculates routes between locations based on distances and average speed information.

While visits are scheduled outside of zone restricted times wherever possible, planned routes that then avoid a school zone, or area around a stadium before a match, are still counted as deviations.

Paragon Route Control enables the planner to influence routes in order to divert from the quickest route in accordance with a set of pre-defined rules. This is achieved by placing markers, known as waypoints, along the route to influence the selection of roads.

When the Paragon software engine reaches the waypoint, it will look at the parameters associated with it, and make a decision about whether to continue on the usual route or to divert. For example, if the criteria are associated with an event that takes place every Saturday afternoon, Paragon software will revert to the usual quickest route every other day of the week, other than on Saturday afternoons.

If a diversion is necessary, then Paragon will divert the route toward the next waypoint. Waypoints essentially guide the route away from its default path when a known event is triggered on that path.



Efficient transport planning

All diversion decision mechanisms are time-based but there are numerous categories of decision. Some may take into account the time of day; some, the day of the week; others, a range of dates; some may even apply all the time.

Decision definitions cater for all of these eventualities. You can set up a decision definition for every time permutation that you envisage using. After you have defined them, you can reuse them over and over on many way points.

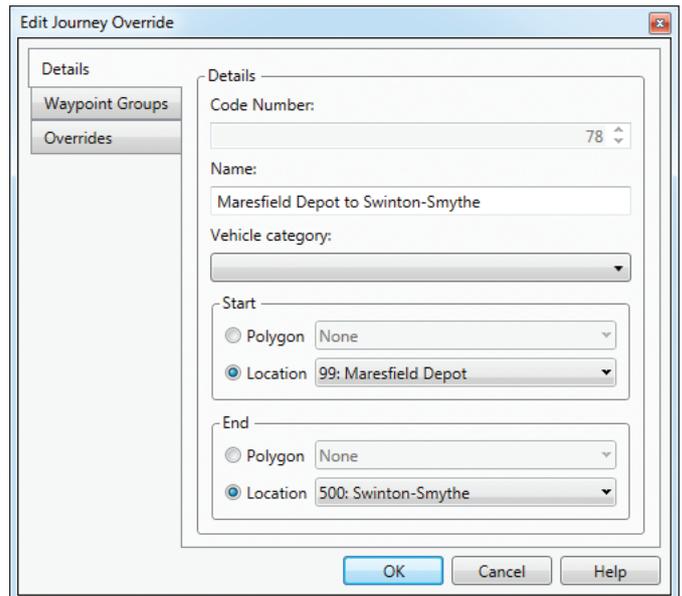
- To cater for recurring events, you can situate a branch waypoint at the entrance to the congestion hotspot. Traffic can then be diverted in line with the list of decisions on that waypoint.
- For event fixtures that occur on an irregular basis, you can set up a calendar of fixtures, so that you do not have to keep changing the decision definitions.

Zonal rules

Paragon Route Control requires the start and finish points of any route to be defined. However, if you are making deliveries to variable customer locations - as opposed to fixed or static routes - Route Control can be applied to all destinations within a zone.

Vehicle types

Some routing decisions depend on the type of vehicle being used. For example, you may not want a crane to use a certain road, even if it can fit physically. To cater for this, you can define different categories of vehicle and associate them with certain waypoint groups. When vehicles encounter a waypoint group, only those of the type specified will be affected by the diversion. This enables you to send different types of vehicle on different routes.



To find out how Paragon Route Control can help you to minimise the impact of the London Lorry Control Scheme and congestion caused by Major Public Events, call Paragon on +44 (0)1306 732600 or email info@paragonrouting.com