

# Greater Lyon

Extension of the Network of Signal-controlled Intersections via Canopy®



Traffic lights have now become “intelligent” and can be coordinated, not according to the time of day, but according to the actual automobile traffic.



## BACKGROUND

The urban community of Lyon includes 55 municipalities and stretches over nearly 500 sq kilometres. It is situated in the heart of the Rhône-Alpes Region, France’s second largest region, with slightly more than 5 million inhabitants. The urbanised area of Lyon demonstrates its dynamism every day as a prestigious hub for exchanges between Northern and Southern Europe.

Greater Lyon, with a population of 1,300,000 inhabitants, makes up 75% of the total population of the Department of the Rhône, but has a surface area that covers only 15% of the department’s territory.

In October 1997, the urban community of Lyon decided to go forth with the Urban Mobility Master Plan, thus being the first urbanised area in France to implement such a plan.

4,400,000 trips are taken daily, with an increase of 25% over 10 years. The automobile is the mode of transportation used most often, even though 20% of automobile trips are less than a kilometre long.

Local buses tend to get tied up in traffic (travelling at less than 10 km/hour on certain bus lines), bicycles are rarely used and walking represents 31% of trips made.

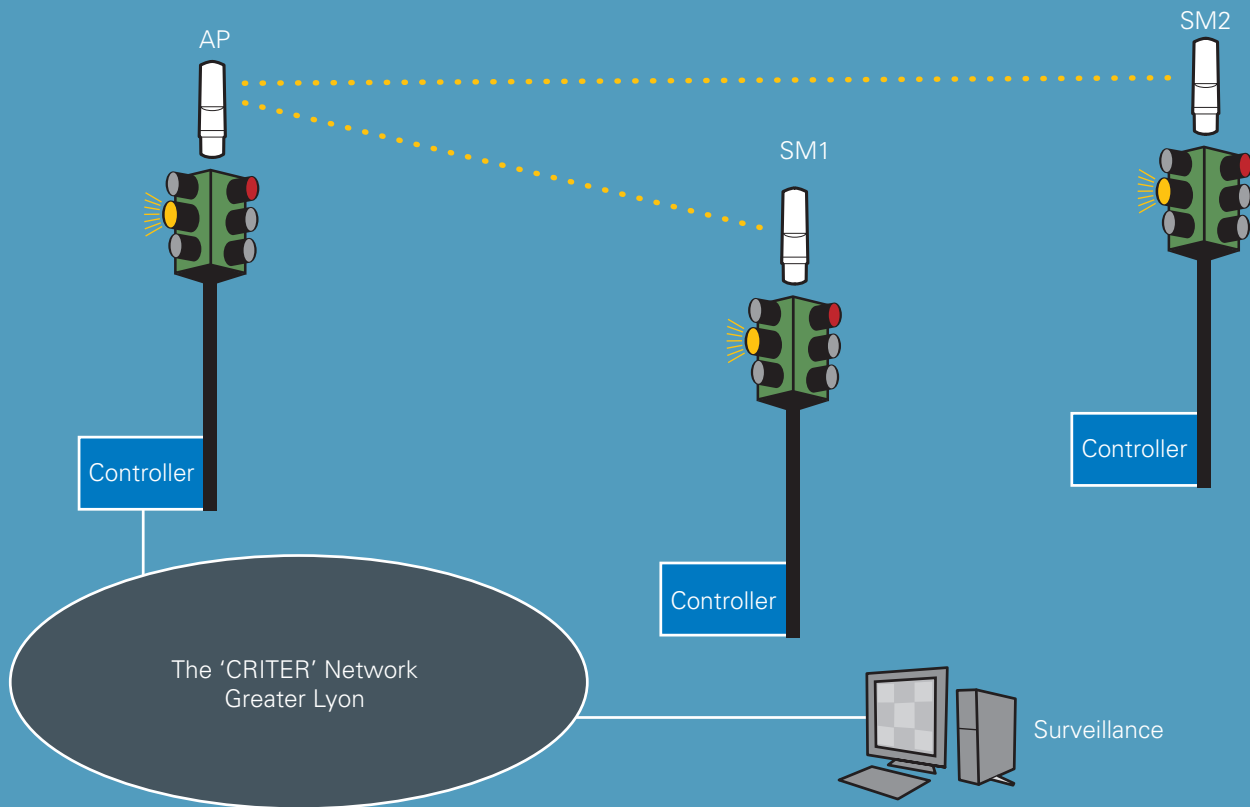
## THE CLIENT’S NEEDS

- Fast and easy installation and deployment
- High quality of service
- Reduced investment cost
- Integrity of data transfer



## Traffic signals and traffic management

The urban community of Lyon is responsible for “traffic light signalling”, which includes 2,000 signal-controlled intersections throughout the urbanised area. In order to render overall traffic coherent and efficient, a computerised system links together certain intersections. This allows even the smallest breakdown to be detected and repaired as quickly as possible. Thanks to having replaced the control station, traffic lights have now become “intelligent” and can be coordinated, not according to the time of



## ADVANTAGES

- Increase in the number of controllers linked to the network without installing additional cables
- An open-ended and extensive solution
- Secured data transfer
- A solution with no licensing



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day, but rather according to the actual automobile traffic.

The client's need within the framework of this project is to easily connect isolated signal-controlled intersections to the network and to control these devices.

### Motorola Canopy Solution

The project consists of linking formerly isolated tricolor traffic controllers to GRAND LYON's 'CRITER' network (Central de Régulation et d'Information du Trafic et des Evènements Routiers).

To do so, the linked controllers were equipped with CANOPY Access Point and the isolated

controllers were equipped with subscriber modules.

Thanks to the resulting CANOPY links, the client's surveillance system sees the traffic light controllers through the CANOPY link as if they were linked directly to the 'CRITER' network.

Tests have clearly demonstrated several of CANOPY's advantages:

- Continuity of service (100%)
- Data integrity (100%)
- Compatibility and transparency with the existing network ('CRITER')

Development will continue progressively to achieve the linking of other isolated traffic lights to the network via MOTOROLA CANOPY links.



### MOTOROLA CANOPY® BROADBAND SOLUTIONS

Experience the Canopy solution today. Visit the Motorola Canopy website at [www.motorola.com/canopy](http://www.motorola.com/canopy)  
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