

# STM

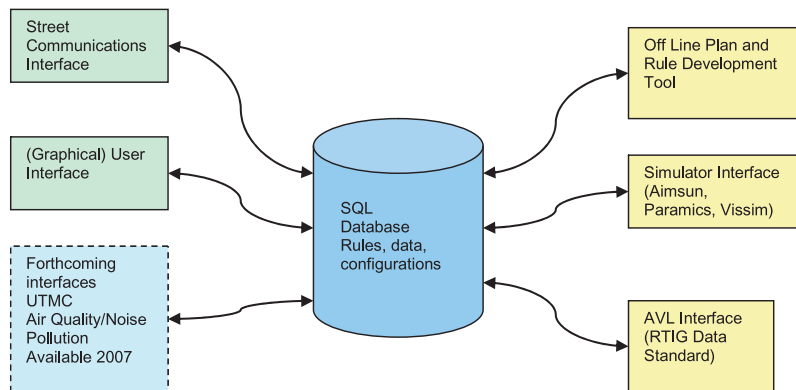
## Strategic Traffic Management Monitoring & Control Software

### Objective

To provide a fully scalable network monitoring and control tool for small towns, major arterial roads through to city wide UTC.

### Features

- Fully adaptable UTC control
- Versatile and configurable traffic data acquisition.
- Off line development tool for junction and cluster plan generation and editing
- Simulator interface for validation (Aimsun)
- On line monitoring of network and systems operation
- AVL interface to provide vehicle priority information for PSV
- Full SQL data base records of all data and control commands changes allowing easy assessment of changes in network usage.
- Variable communication rates to suit the location, available bandwidth and prevailing circumstances – fast frequent intervention during periods of high demand, lower rates at less demanding times.
- May be used to aggregate and report on network data for TMA or other applications.



### SPECIFICATION

Strategic Traffic Management has evolved from the UKDfT UTMC research program. At its heart is an SQL database. This stores; timing plans for the junctions under control, all the data recovered from the street, the logical rules that determine which plans or sets of plans are to be applied under any given set of conditions and the set up information for the user interfaces. This allows the entire database to be copied off line for security, archive and simulation purposes.

The database interfaces to the street communications via the existing infrastructure. It also provides the user with a GUI to monitor run time operation, an interface for AVL data (to the RTIG spec), an interface to simulation tools and an offline development tool. These last two facilities allow new plans and control rules to be designed and tested with simulations before being transferred to the online database for real deployment.

range of input parameters. This allows different areas of the network to be controlled according to appropriate criteria, e.g. plans to optimise arterial routes through residential areas for low levels of noise and air pollution at night, simple adjustment of the start and stop times of fixed time plans in outlying clusters of junctions, along with the more traditional functions such as prioritisation of PSVs.

STM may also be used as a management tool for other systems. It can apply control decisions to a wide range of data sources and apply these decisions to other parts of the network control system, e.g. as a 'wrapper' for SCOOT.

### Future Facilities

Planned enhancements include a UTMC interface to allow data sharing and access to a wider set of control parameters: tools for network management for air quality and noise pollution; and extended simulation interfacing (Paramics, Vissim, etc.)

### Sales

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