The Syntell RMS is a cost effective traffic management tool, designed for the transport authorities. The system communicates with the on-street traffic controller to provide remote monitoring of traffic flow and status of the traffic controller and intersection. In addition, the system also provides comprehensive traffic control facilities.

Flexibility in architecture allows systems to be tailored to meet specific requirements of the end-users. Systems range from complex implementations integrated with Area Traffic Control (ATC) Urban Traffic Control (UTC) / Split Cycle Offset Optimisation Technique (SCOOT) to basic monitoring functionality using GPRS connectivity.

The system can be upgraded to support a dedicated management computer (server) and up to five communications Front End Processors (FEP), each capable of serving 384 controllers.

The philosophy of the system is one of monitoring and control by manual intervention. The intelligence is retained at the on-street controller and is not dependent on the communication line to operate. In the event of communications failure the controller will rely on its own onboard clock to provide synchronization.
KEY FEATURES
The operator interface uses the latest graphical user interface (GUI) technology. All data can be displayed in a free format style allowing the user to customize the data display to suit personal requirements.

The system can be installed as a stand-alone direct line or GPR system, or be integrated to work in conjunction with a UTC or SCOOT system.

Workstation access to the system can be local, via the LAN or even over the Internet with alarms being filtered for direct SMS notification to support staff.

PRESENTATION OF DATA
Data is presented to the Operator in the following ways:
- Events Lists - Display all real-time events as they occur. Can also be filtered.
- Alarm Lists - Display only the events that have been marked as Alarms
- Sub Area Maps - Area specific, real-time graphical representation of the stages
- Detailed Site Mics - Controller specific real-time graphical and text representation of a specific junction’s status.
- Specific Tags may also be monitored using one of the engineering tools available to the engineering staff
- External 3rd party software may also be used to connect to the relevant data, this can be manipulated to generate a user defined report to assist in fault trending analysis.

TRAFFIC CONTROL FACILITIES

CONTROL
- Set Plans / Offsets
- Force Hurry / Emergency / Green wave / Part time flashing
- Force Dimming
- Set & Request Date / Time
- Set Switched signs
- Enable / disable manual mode operation
- Upload fault list, event log and snapshot
- Clock Synchronisation
- Partial and full configuration download

MONITORING
- UTC response (Direct line only)
- Controller ID No and Checksum
- Door Open and Alarm Conditions
- Fault conditions (lamp fault & events)
- Stage / Phase / Detector requests
- Detector Failures (Permanent and No Call)
- Mode / Plan / Offset / Synch time
- Voltage & Temperature
- Speed / Count / Occupancy detector information
- SCOOT detectors (Direct line only)
- GPRS Stats (GPRS only)
- SMS Alert to Service Technicians