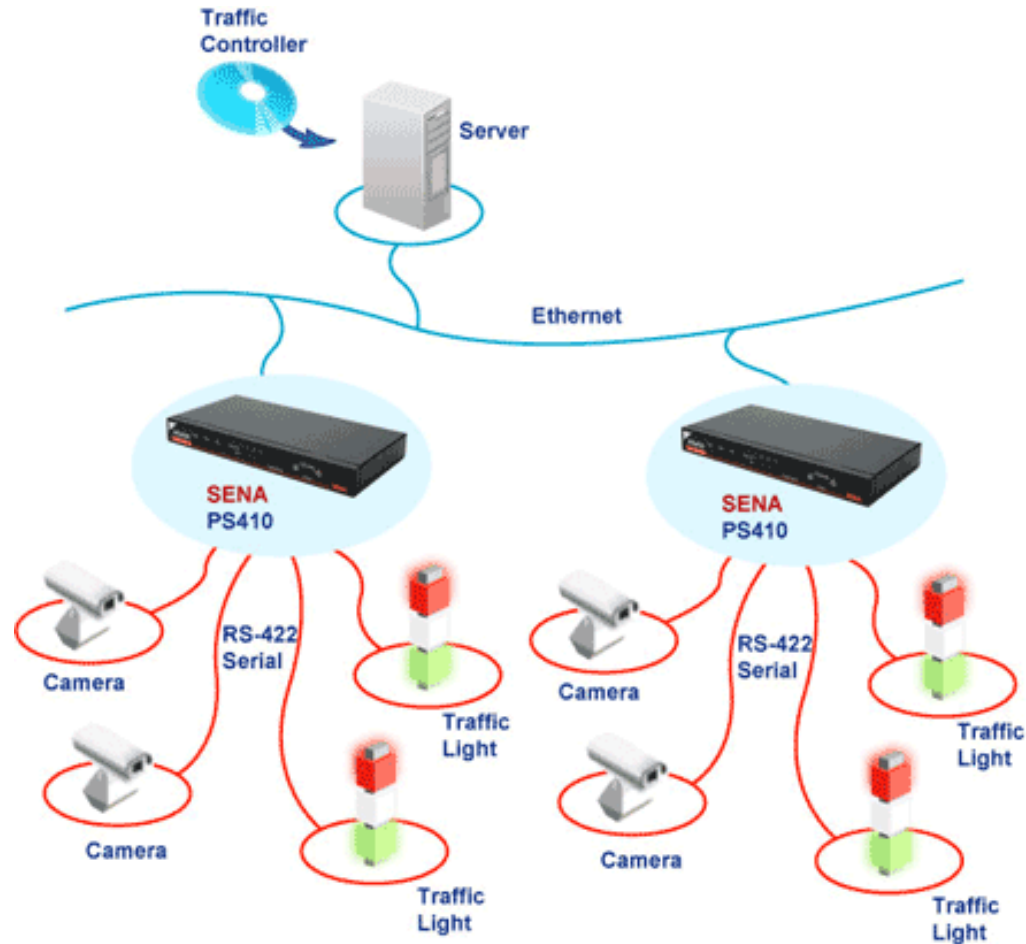


Traffic Management Case Study

Serial to Ethernet serial device servers can be used to improve monitoring and control of any RS232 or RS422 based system. This case study covers Traffic Management but is applicable to other complex systems.

Application Diagram



Monitoring and Control

Serial Device Servers can be used to connect devices with serial ports to a main server via Ethernet networks. In a traffic management situation, typical equipment will include signs, traffic lights and cameras amongst others. Being able to centrally monitor and control all these devices gives significant benefits.

- Fast fault diagnostics, for quicker repair
- Immediate action in emergency situations
- Lower overhead costs, through central monitoring
- Effective control of individual parts of the system, such as intersections
- Improved coordination between different system elements

Integrating systems with a number of different devices into a single network gives these improvements, but using low grade devices servers can lead to unforeseen problems. This is why Sena serial device servers have been designed to avoid the pitfalls.

- Secure, encrypted communications to prevent unauthorised tampering. This is particularly important in control situations
- Password protected to control access to the system
- Easy to integrate into existing or new control and monitoring programs through
 - Virtual COM port software
 - Multiple protocol support, including SMTP, HTTP and PPPoE
 - Static or Dynamic addressing to fit your network
 - Flexible and easy setup procedures
 - System logging

The Pro Series range come with 2, 4 or 8 ports to fit with the size of system you require, and multiple units can be integrated into a larger network. Control over Broadband, Web or simple network cables eliminates problems often encountered with wireless systems, such as poor reception, interference and security concerns.

Traffic management is an example of how useful serial device servers are in creating a complete network of dissimilar devices, to allow centralised management and control.