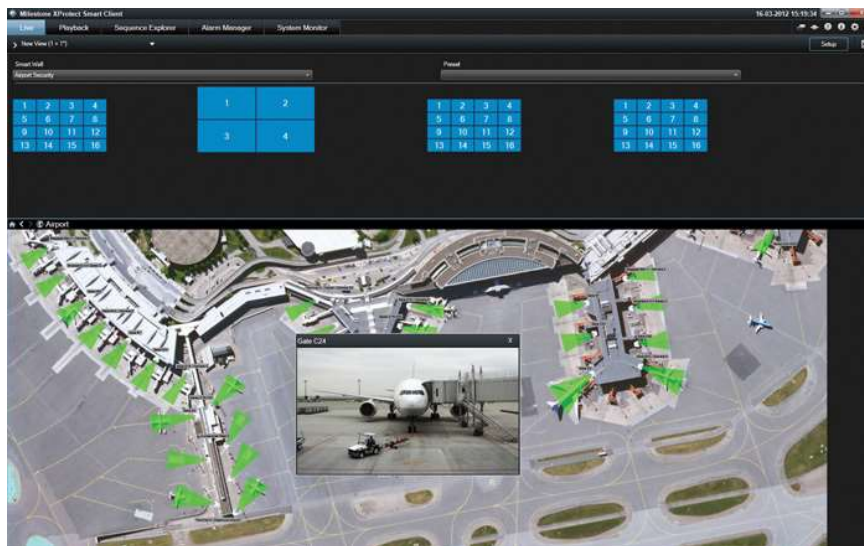


## Case Study

### Xprotect CCTV Gateway

Chipkin developed a custom driver for the Xprotect CCTV System. This allows any remote system to send event / command strings to the Xprotect system to drive the system to a particular state. For example to allow a building control system to drive a particular camera to a particular preset location and focus.

This general purpose gateway for Xprotect was applied to an automation project where automation was controlled by the Autotronica PLC system which uses ModbusTCP. Thus the project allows the Autotronica PLC's to drive selected camera's to selected presets.



## Introduction

EOS Lightmedia implement stunning systems. They need interfaces to other lighting systems installed at the sites they work at as well as access to some other control elements in the Building Automation Systems. Working with Chipkin, a protocol was designed and implemented to control over relays, groups and preset scenes. This protocol is coupled with any of the other protocols in the FieldServer library to make gateway firmware.



### XProtect® Professional Series

The ideal video management software for mid-sized installations



Event message sent on trigger

Generic Event message Protocol

**GATEWAY**

Modbus



Gateway is client reads data from FACP to trigger event messages.

Gateway is server. FACP sends data to trigger event messages.

## Chipkin Automation Systems

Protocol to protocol – Enabling the IOT Internet of Things

Products that support approx.. 140 major protocols. If we don't have a solution for you we will make you one. More than a dozen customers a year have a custom driver developed for them.

Chipkin are highly regarded for their outstanding support. System integration isn't always trivial even if that is what they tell you.

The Chipkin BACnet stack comes with a 100% copyright infringement indemnity to make corporate lawyers happy. Customers get direct access to the stack developers for coaching and problem solving.

## XProtect by Milestone

Founded in 1998, Milestone Systems is a world-leading provider of open platform IP video management software (VMS), dedicated to deliver high quality business video platform software, in which our community of hardware and software partners can integrate their video solutions for security and beyond security purposes. Our objective is to improve our community customers' organizational processes and safety level through the management, integration and distribution of digital video data.

**CampusSafety**

"Best award"

**PSA**  
SECURITY NETWORK

"Star Vendor Award"

**SECURITY SALES  
& INTEGRATION**

"Stellar Customer Service"

## Milestone facts

**+150.000**

**Installations**

See for yourself  
[Download free trial](#)

**27**

**Countries**

An international brand  
with a global presence

**20**

**Years of business**

We pioneered IP video  
surveillance technology  
and have been leading the  
pack ever since

**Unlimited**

**Integration possibilities**

Our open platform paired  
with solutions from over  
1,000 technology providers  
equals endless possibilities

## Some Details

Xprotect listens for messages from remote systems using UDP on a configurable port number. The string is extracted from the payload and a response with the same string is sent back to the initiator.

A user must configure the correct port number for the 'generic event' receiver.

Strings to drive actions in the Xprotect System must meet the Xprotect requirements and formats. The Xprotect system allows a user to create a map of command strings and the action that must occur when the event string is received. Therefore the engineers must build this table. These strings are used in the gateway configuration. If the gateway sends a string that is unknown or which does not match correctly then the event action will not occur. As communication is uni-directional there is no report for failure or error.

Strings are null (zero) terminated.

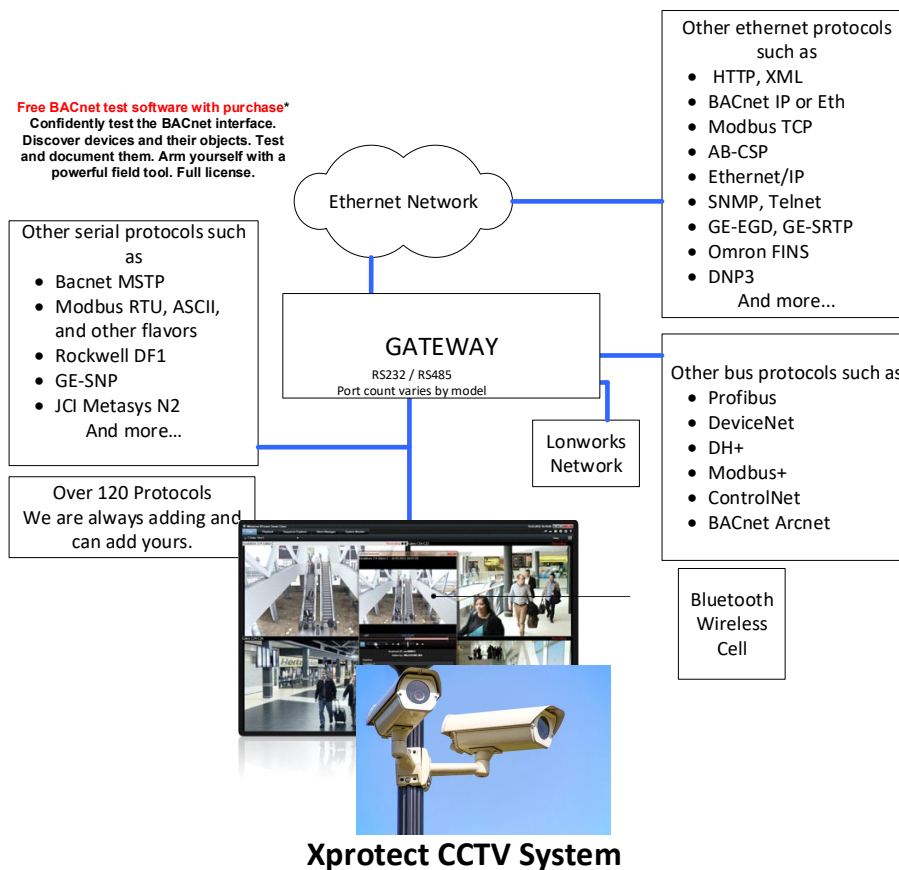
Strings may contain control characters

Strings may be up to 100 bytes long

Multiple Xprotect Systems can be connected to one gateway.

The "other" protocol can be Modbus, BACnet, Lonworks, GE, Rockwell ... any of the approx. 120 protocols our product supports.

## Multi Protocol Gateway Block Diagram



## Keywords

CCTV Controls

Milestone CCTV Automation

Milestone CCTV BAS

Milestone CCTV BMS

Milestone CCTV control interface

Xprotect CCTV Automation

Xprotect CCTV BAS

Xprotect CCTV BMS

Xprotect CCTV control interface

Milestone cctv gateway

Xprotect gateway

Milestone cctv modbus

Xprotect modbus

Milestone cctv bacnet

Xprotect bacnet

Custom protocol development