

Case Study

EOS Lightmedia Gateway

Chipkin developed a custom driver for EOS Lightmedia to allow them to send control messages to Building Automation Systems using protocols like BACnet, Modbus, Rockwell ... over 120 protocols.

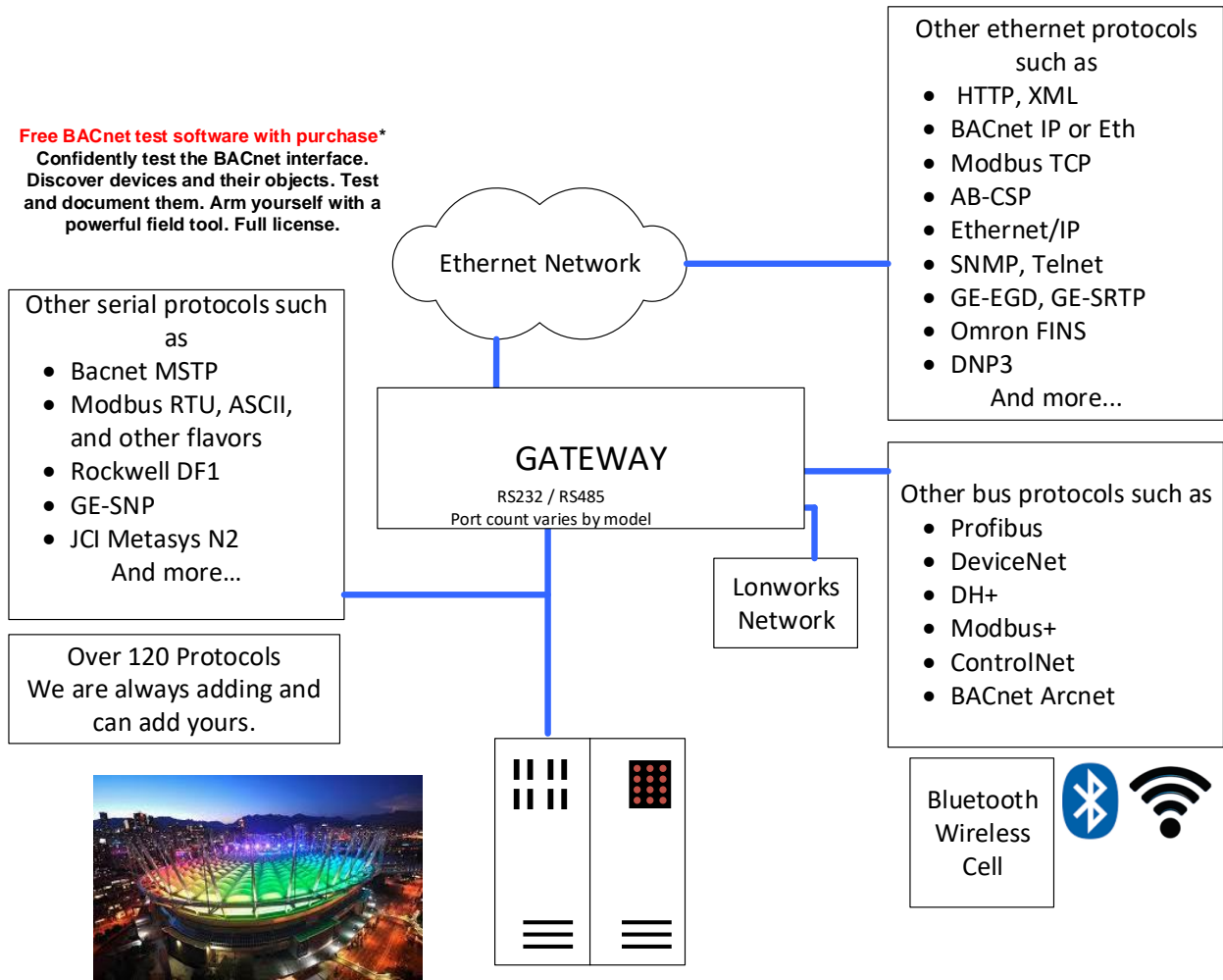
This general-purpose gateway for EOS was applied to a lighting control project in Edmonton in spring 2018 where the EOS system sends command messages to the Douglas Lighting BACnet enabled lighting control system.



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 pre-set scenes. This protocol is coupled with any of the other protocols in the FieldServer library to make gateway firmware.

Free BACnet test software with purchase*
 Confidently test the BACnet interface. Discover devices and their objects. Test and document them. Arm yourself with a powerful field tool. Full license.



EOS Lightmedia Command Server



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.

EOS Lightmedia

Eos Lightmedia is an award-winning lighting and media design firm with international experience in architecture, public spaces, building facades, themed attractions, museums, presentation centers, and public art installations.

Eos really lights up a room. We create immersive environments that attract and inspire audiences. Eos has evolved from an award-winning lighting and media design firm with over 25 years of international experience in architecture, themed attractions, exhibitions, museums, presentation centres, and public art installations.

Our services have expanded to include design, supply, install, and programming services of lighting and media systems, including their control technology. We love collaboration. Even if you're not sure where to start, we'd love to hear about your project, big or small.



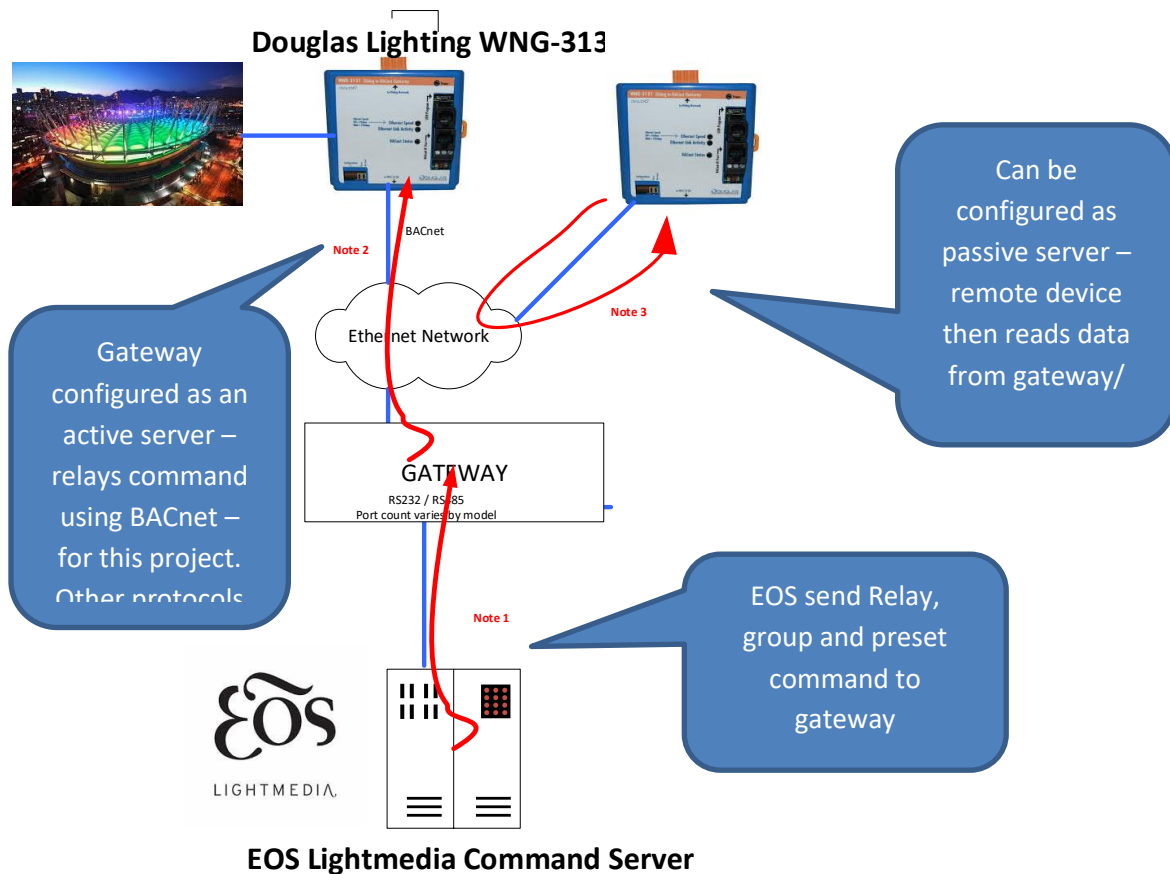
Cactus Club

Coal Harbour

Vancouver

Some Details

EOS commands to the gateway can be actively relayed to control points in remote devices. In other configurations, the command data can be made available in server mode using protocols like BACnet in which case the remote BACnet device must read the command data out of the gateway.



Examples of message formats

Relays

D1R2on<CR> = Device/Panel 1 Relay 2 command on

D142R1168off<CR> = Device/Panel 142 Relay 1168 command off

D12R1-4off<CR> = Device/Panel 12 Relay 1-4 command off (Sub relay command)

Groups

D1G2off<CR> = Device/Panel 1 Group 2 command off

D142G123on<CR> = Device/Panel 142 Group 123 command on

Pre-set Scenes

D1P123off<CR> = Device/Panel 1 Preset 123 command off

D142P1on<CR> = Device/Panel 142 Preset 1 command on

Keywords

Lighting Controls

Lighting Automation

EOS Lightmedia gateway

EOS Lightmedia automation

EOS Lightmedia integration

EOS Lightmedia BACnet

EOS Bacnet

EOS Modbus

Douglas Lighting WNG

Douglas Lighting BACnet

Protocol gateway

One protocol to another

BACnet/IP

Custom driver development

System integration

Lighting integration

Custom protocol development