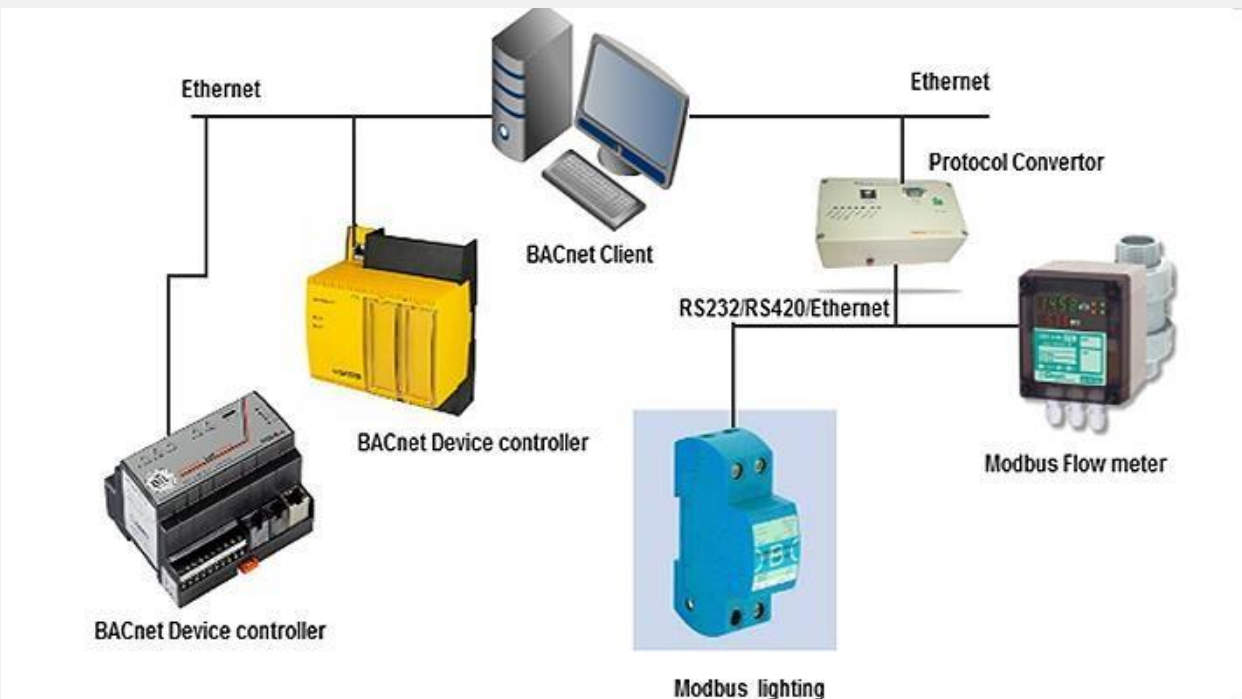




GadgEon
Engineering Smartness



ModBus To BACnet Converter

Customer needed a cost-effective version of a BACnet modbus protocol converter.

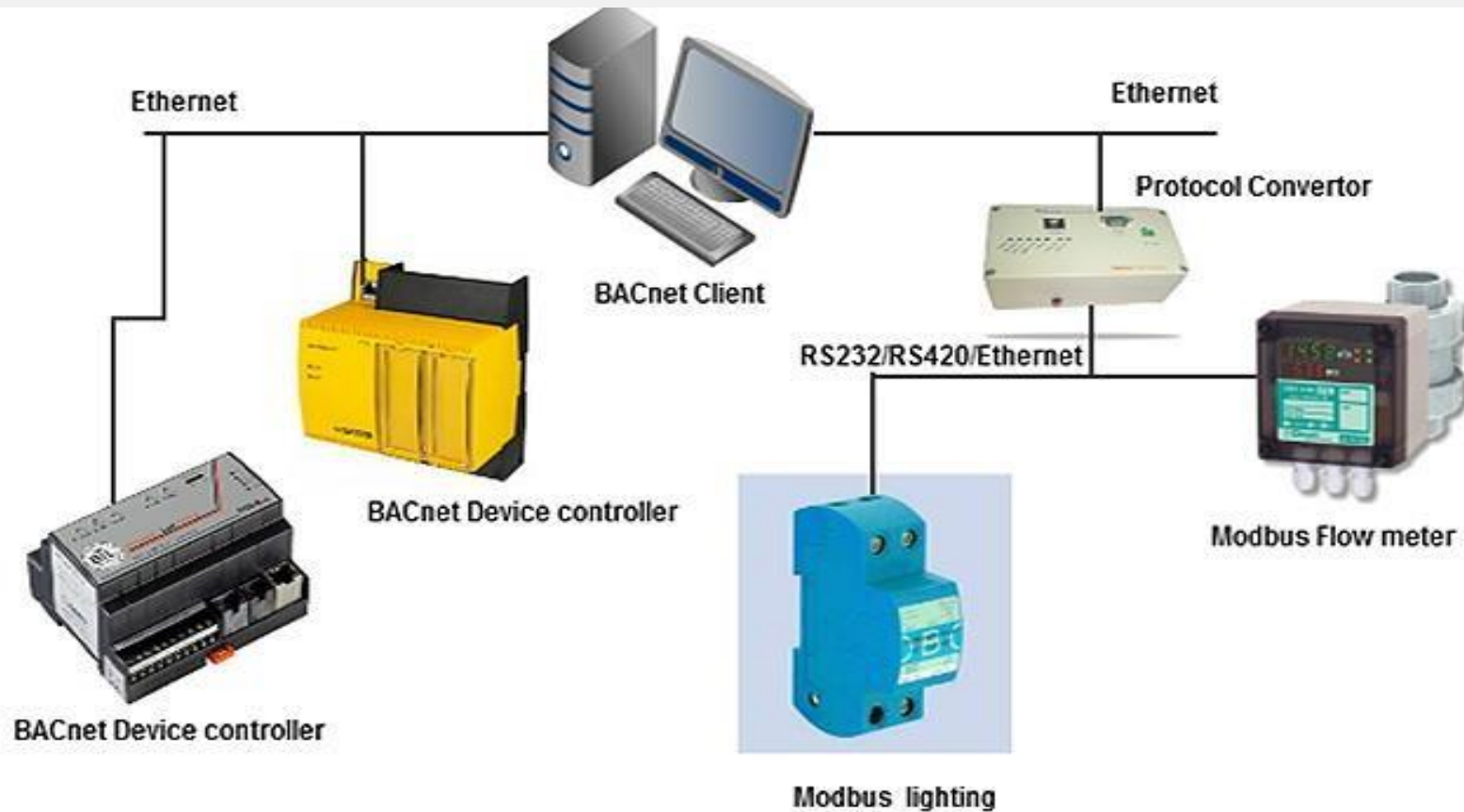
Challenge

- Customization of open source stack of BACNet and Modbus protocols on a re-engineered custom Hardware to realize the Gateway functionality.

Outcome

- Overall cost of protocol converter reduced 30%
- BACnet Testing Lab Certified
- Web-based configuration tool developed for remote configuration

Protocon – Deployment Diagram



WHAT DID GADGEON DO?	PLATFORMS/ TECHNOLOGIES USED
1) Architecture for Gateway application, Database for configurations, WebGui for provisioning	Requirements Gathering & Analysis, Uses cases, Architecture development, identification of functional components.
2) Embedded Linux firmware	<p>Developed Gateway application daemon with framework for the Modbus and BACnet converter functionality in C++</p> <p>Adapted Open source BACnet Stack and Modbus Stack, also added new features to the stack to meet complete Protocon requirements</p> <p>Designed, Developed and Tested Web based Configuration Tool for Protocon Converter</p>
3) Used Automated Test framework (Robot) for incremental Integration and Functional testing.	Robot, Python, Selenium, Jenkins, Sikuli



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