

CASE STUDY

Gridscape Solutions saves time and cost with Modbus simulator for network integration of EV DC Fast Charging Station

Introduction

Our client is a leading electric vehicle (EV) charging solutions company with largest EV charging network in the world. They were looking for a low-cost, quick-turnaround solution to simulate a Modbus interface to a DC Fast Charging station. Gridscape Solutions developed and delivered a fully functional simulator to complete the project in time and within budget.

Challenge

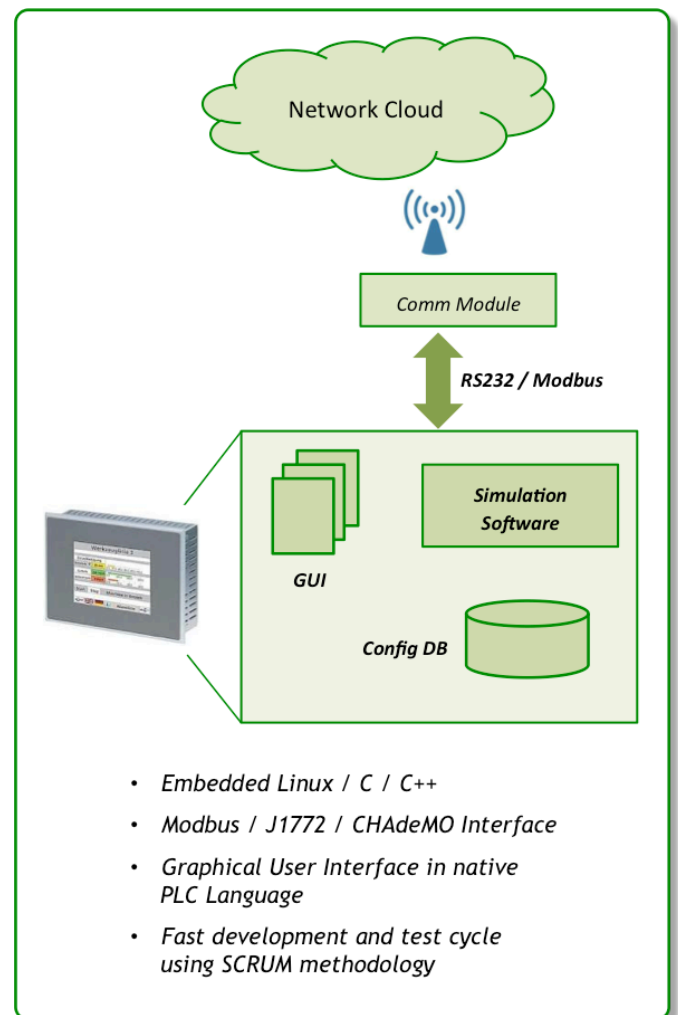
In order to maintain its leadership position in the marketplace, our client needed to continue innovating new products while proliferating its networked solution architecture to several new partners building various EV charging stations. With tight budget constraints and a short time-to-develop window of opportunity, it evaluated various outsourcing options and selected Gridscape Solutions to provide the simulator.

Solution

Gridscape Solutions, with its distributed expert team in US and India, first developed a specification and prototype on a T&M basis in a record two weeks' time. Subsequently, it developed and delivered a fully functional Modbus simulator for our client's development and test team to enable them to implement various functions necessary for DC Fast Charging station.

The entire project was completed in two months within budget, leveraging our India development center

Our client's key requirements for selecting the right outsourced partner were proven experience in developing best in class, robust software solutions for control and industrial systems, solid expertise in various control system protocols such as Modbus, CAN bus, etc. and commitment in delivering a solution in time and within budget.





Gridscape Solutions deployed its remote team comprising of a system architect, developers and testers, very quickly to first develop a functional specification for the simulator and a quick prototype on a T&M basis. With our client's approval, a full scale, fixed-price development project was launched and delivered with on-site acceptance testing and training in two months.

Results

Gridscape Solutions helped its client achieve its desired goals by delivering a best-in-class simulator for its technical team. Our client was able to:

- Deliver its network integration solution within time and budgetary constraints
- Meet its customer commitment in deploying the Modbus interface efficiently
- Continue to demonstrate its leadership position

Our client has extended our business partnership and awarded another project to us to extend the existing Modbus simulator to include a SAE J1772 Combo based DC Fast Charging Station as well