MAPUS⊘FT

CASE STUDY

3

GE Power Systems & GE Electric, Canada

BACKGROUND

GE Power provides a broad array of power generation and energy delivery products to solve challenges. They work in several industries including renewable resources such as wind and solar, biogas and alternative fuels as well as coal, oil, natural gas and nuclear energy. They are headquartered in Schenectady, New York.

GE develops multi-functional power meters providing electric power automation functions. The primary purpose of these products is to collect, store and process real-world information and to perform automated control functions based on that data. These products also have communication capability for collecting and/or forwarding information from/to other devices. Some products may be equipped with a graphics display panel that provides a local operator interface. The product was working on an older pSOS platform release successfully for several years and GE wanted to first move this product to a different platform like MQX and then after many years to Linux.

First Project

Migrate multi-functional power gateway controller applications developed for pSOS operating system to MQX. The application is real-time and mission critical and needs to support at least the same or better performance after switching the OS. The project involved offering a custom solution involving faster messaging and support for a specific and older version of pSOS operating platform.

Second Project

Migrate multi-functional power gateway controller applications developed for pSOS operating system to Linux. The application is real-time and mission critical and needs to support at least the same or better performance after switching the OS.

Product

⊘S CHANGER®

OS Changer® Porting kit for re-hosting pSOS application onto MQX and Linux platforms

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SOLUTION

MapuSoft's OS Changer Porting kit allowed GE to successfully migrate its multi-function power gateway controller applications from pSOS to MQX and then to the Linux operating system. In both instances, the code was migrated without code re-write and with maintaining or exceeding the stability and performance of the original system.

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