

Spring Helps Medical Technology Company in Migration to Windows CE

The client is a medical technology company that develops products and solutions for people with chronic diseases.

This was the first time the client decided to migrate one of their products to Windows CE. Their engineering team was keen to learn the platform and develop the software in-house, but needed guidance from Windows CE experts.

How Spring Helped

Spring provided the expertise in the form of consulting by a software architect, who contributed in feasibility study, architecture design, and project planning. The primary design goal for the device platform software was to make domain specific device applications easy to extend to support new models of connected devices. A secondary goal was to support connectivity with commonly available PC configurations.

The architect contributed in the following activities:

- Carried out feasibility study, determined key technology issues, and identified ways to address the issues primarily through the use of appropriate reference code.
- Consulted in architectural design of the device's firmware in the context of important design goals and other product requirements, exploring various alternatives and discussing the pros and cons of each choice.
- Conducted training sessions on various Windows CE topics.
- Provided support for setting up the development environment, compilation process, troubleshooting the defects, and establishing the software release process.
- Developed some key components such as USB RNDIS device driver for Windows CE and host driver for Windows XP and Windows Vista.
- Contributed to the development of overall project plan.

About Spring

Spring Computing Technologies Pvt. Ltd. is a Product Engineering company in India, helping customers outsource their entire R&D and product development needs in the areas of Consumer Electronics, Automotive, Industrial Automation, and Medical Electronics. Spring provides comprehensive services for development of electronic and software products, re-engineering, migration/porting, and product support.

Business Impact

Our in-depth knowledge of Windows CE operating system helped the client in ensuring success of the feasibility study, developing realistic project plans and cutting down on the development time. Successful project execution will have significant impact on the technology direction for the future.

Spring will continue to provide consulting support, as required, through the entire product life cycle.

Technologies

Windows CE 5.0, .NETCF
USB RNDIS, Ethernet (802.3) / HTTPD
Web Server Stack on Windows CE
Host Device Drivers for Windows XP/Vista