

Spring Helps Biodetection Technology Company in Migration to Windows CE 6.0

The customer is a worldwide leader in biodetection technology used in industrial, research and government facilities.

The new device was to be developed as an addition to the line of real-time particle measurement instruments used for testing, monitoring and certifying cleanroom environments for industries like electronics, aerospace, food processing, and pharmaceuticals, and for certifying efficiency. The client needed help in migration from Windows Embedded CE 5.0 to CE 6.0 and to add new connectivity features.

How Spring Helped

Spring provided the required Windows Embedded CE expertise and contributed in the following activities:

- Trained the customer's engineering team on updates to 'CE 6 R2'
- Reviewed the existing product architecture and provided suggestions for improvements in performance and reliability.
- Established process, procedures, policies, and best practices for software design, implementation, review and testing.
- Provided support for developing test fixtures for functional testing, and software tools to run manufacturing diagnostics.
- Provided guidance on Microsoft Windows Quality Online Services (WinQual) to get host device drivers certified for Windows Vista.
- Implemented Windows CE Power Manager Architecture APIs. This was a very critical component that impacted everything from OAL, device drivers, middleware, to applications.
- Developed device specific wrapper for WinCE USB RNDIS network stack. This enabled USB devices supporting MS RNDIS spec to be seamlessly integrated into the system as removable Ethernet NIC.
- Provided scope of work in implementing Bluetooth 2.0 and WLAN 802.11g.

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 successful completion of the project in time. Development time and effort was reduced substantially due to our sound understanding of the technology as well as issues like functional testing and certification (WinQual). The customer's ability to release the product to the market in time will have positive impact on the overall success of the product.

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

Technologies

Windows Embedded CE 6.0 R2
Proprietary File Server Stack on WinCE
USB RNDIS, Bluetooth 2.0, WLAN 802.11g
Hybrid Connect Host Device Driver for Windows Vista
WinQual, Windows Logo Kit (WLK)