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Cash Drawer Driver Development

The main goal of the Cash Drawer Driver Development project was to convert existing 32-bit cash drawer WDM driver for 2 models of POS terminals into a 64-bit driver using Kernel-Mode Driver Framework (KMDF). Besides the driver porting it was necessary to develop Windows Management Instrumentation (WMI) support for the driver and update a demonstration application for debugging and testing purposes. The new driver also supports switching power states and is compatible with the latest 32-bit and 64-bit operating systems (Windows 7, Windows 8). An installation package was also developed as a part of the project.

Tools and Technologies

- C/C++
- MFC
- Widows Driver Model (WDM)
- Windows Driver Kit (WDK) 8.0
- Windows Driver Framework (WDF)
- Kernel-Mode Driver Framework (KMDF)
- Windows Management Instrumentation (WMI)
- Windows shell scripts
- Microsoft Visual Studio 2012
- Windows Installer XML (WiX) toolset

Scope

- Driver Design
- Development, Unit Testing and Defects Resolution
- Demo Application update
- Operating Systems: Windows 7 and Windows 8, both 32-bit and 64-bit
- Driver Installation Package
- 2 engineers for 3 months duration

Project Management

- Weekly updated project plan
- Weekly status report and deliverables update

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