

Designing and Developing APIs for Projector, Custom and ISO VT Applications

The Client

For over two decades now, our customer has been designing and developing some of the most reliable and rugged operator panels for mobile machines operating in challenging environments.

The Challenge

Our customer's operator console is set to go live in tractors and other vehicles by mid-2007. The ARM9 based console application(s) will run on a Linux operating system. The console will be capable of running any combination of three applications – ISO Virtual Terminal (ISO-VT), projector and custom applications. This required all three applications to have common interfaces.

The Solution

Our team proposed a C++ API that will provide common interfaces for ISO Virtual Terminal (ISO-VT), projector and custom application. Primarily, C++ API ensured application platform independence. The system definition was completed using XML files and other artifacts such as bitmaps downloaded to the target system.

The Benefits

Apart from cost arbitrage, the customer benefited from:

- A remarkable user-friendly interface
- Improved time-to-market and cost competitiveness
- Mindteck's offshore development center with deep expertise in designing and developing operator panel APIs for moving platforms

The Technology