

Case Study

Simms Enhance Operational Readiness of Military Vehicle Computing Application

System Integrator's in partnership with government agencies, design and create innovative technology to assist and protect armed forces in operations across the globe. Often in harsh environments the technology must withstand demands that far exceed conventional usage. When faced with the threat of conflict it is imperative the systems designed do not fail when required – if they do the results could be catastrophic. For Military Computing data storage devices are essential to the success of the system as they will store mission critical data and boost bespoke software.

Background

The Customer, who is a major UK system integrator provides advanced solutions and services to the MOD and National Security Agencies, contacted Simms regarding a land based military vehicle computing application problem.



Picture for illustration only

The Challenge

The device priority was to run the bespoke mapping and communication software. During advanced testing with the MOD it was discovered that the incumbent data device did not meet the desired functionality in regards to boot times. The prototype system boot time was over 500% longer than the specified requirement of 30 seconds. This posed two major problems;

- Threat to the military forces whom may be stuck in limbo whilst waiting for the system to load.
- The possibility the system integrator would lose a significant contract because they could not meet the specifications agreed in the tender.

Simms were recommended to the system integrator having worked on a number of high profile solid state opportunities in the Aerospace and Defense market.

How Simms Achieved This

Our security cleared team were invited to see the application first hand. Our experience within in the Aerospace and Defence market dictated that in order to meet the time constraints it would be of great benefit if the engineering manager from the SSD manufacturer we recommended could join the meeting.

We arranged and facilitated for all 3 parties to be present within two days of the initial discussion. During the demonstration we were able to advise on site, how the O/S settings could be tweaked to enhance performance. This resulted in further reduced boot times but still not to the required specifications. We then drew up a list of options to customise the SSD further by amending C.H.S values and timings. We supplied additional evaluation units within 10 days and after further testing they delivered a reduction in boot times of 500%.



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Why Simms?

Simms were recommended due to our work specifically in the Aerospace & Defence market and were selected based on our capability to deliver a technical resolution and firmware customisation that meet the required specifications in the quickest possible time.

Simms Delivered Because of

- Knowledge of SSD and Operating System Interaction
- Firmware Customisation
- Transparent Channel Engagement
- Commitment to Meet Deadlines
- World Class Supplier Line Up
- Technical Resolution Services