

Black Box for Enterprise Data Recording

THE CHALLENGE

Designing a “Black Box” for Enterprise Data Recording with the need for a storage media that is fast, durable and resilient enough for mission critical scenarios

THE SOLUTION

STEC Zeus^{IOPS} Solid State Technology

THE BENEFIT

By using STEC’s Zeus^{IOPS} SSD, Axxana was able to develop the “Phoenix” system that is fast enough and robust enough for enterprise level deployment

Overview

As the world become more and more of a “always-on” moto, companies that transmit millions of dollars in a single transaction like the financial industry cannot afford loss of enterprise data. Protecting this data is becoming more and more critical and with it, the need for data protection, whether natural disasters, terrorist attacks or unexpected power loss.

Axxana, a company specializing in disaster recovery, was founded on these needs. With their newly released product, the “Pheonix System”, designed to withstand fire, floods, earthquakes, power failure and extreme conditions, Axxana was able to support such needs. However, develop such a product was not possible until recently due to the advancement of STEC flash technology. STEC’s unique attributes of performance, reliability, durability and stability were vital to the development and success of the Pheonix system.

With extensive research, Axxana’s engineering team chose STEC ZeusIOPS SSD as the only viable storage media due to its extreme performance and its ability to withstand the conditions that could possibly threaten the security of data. Standard rotating disk drives built with mechanical moving parts are subject to corrupted data with exposure to vibration, shock and other extreme conditions. Axxana’s architecture team also ruled out dynamic random access memory (DRAM) because the risk of losing data to power failure was too great. Though both medium are better suited for lower client grade applications, Enterprise and mission critical application requires a more stringent and robust storage device such as STEC ZeusIOPS Solid State Drives.

The engineering team at Axxana chose STEC ZeusIOPS SSD for several attributes. One such benefit is its performance versus low power consumption. Axxana’s Phoenix system had to be resilient to outside environments at the same time cautious at how much heat is generated within the box. This proved difficult with existing HDDs as it generates too much heat for such slow performance. STEC

ZeusIOPS SSD power consumption is half that of a normal enterprise drive but upwards of 78x the performance, making it ideal for this application.

Axxana’s Pheonix system, enabled with STEC’s Flash technology, is now ready for enterprise deployment.