

Revolutionizing telecom and combating fraud

How Veriswitch powers SmartShield with Vultr

Veriswitch is a premier developer and provider of integrated carrier management systems that delivers real-time telecom solutions. Veriswitch's turnkey solution caters predominantly to the wholesaler and reseller markets in the telecommunications sector. Their clients rely on seamless call management with 100% uptime – even a minor glitch can have significant repercussions. Veriswitch's close partnership with Vultr has been integral to achieving the level of reliability that their clients demand.

SmartShield, the centerpiece of Veriswitch's product lineup, is a testament to their innovative spirit – an AI-driven application that intercepts and neutralizes spam calls with 90%-95% accuracy. Unlike traditional systems, which scan for specific keywords, SmartShield assesses behavioral patterns, context, and intent behind each call. SmartShield can transcribe and analyze calls in dozens of languages to understand and mitigate various scam tactics from across the globe. It's a powerful tool in the fight against telecom fraud.

Scam calls are becoming increasingly sophisticated, with both attackers and defenders using AI. In this environment, SmartShield shows how to harness cutting-edge technology for the greater good.

"I don't think people are aware of how targeted they are," says Veriswitch co-founder Umberto Mautone.

Addressing Veriswitch and SmartShield's unique requirements

As an AI-driven platform designed to intercept and eliminate spam calls, SmartShield's requirements are as complex as they are critical.

The challenge Veriswitch faced was two-fold. First, there was the technical necessity of processing millions of calls per second, which demands robust hardware and sophisticated software capable of real-time, accurate analysis. This required a cloud platform offering high-performance computing resources capable of supporting the intensive workloads generated by SmartShield's AI algorithms.

Second, SmartShield's effectiveness relied on its nuanced understanding of behavior, context, and intent. This required leveraging state-of-the-art AI training and computational capabilities to continually refine and enhance SmartShield's algorithms. The goal was not just to match but to stay ahead of the increasingly sophisticated techniques used by fraudsters, making accuracy and adaptability paramount.



Industry

Telecom

About Veriswitch

Veriswitch delivers telecom solutions including SmartShield, an AI-driven application that intercepts and neutralizes spam calls.

veriswitch.com

"Veriswitch's commitment to cleaning up the telecom industry highlighted the need for a solution that was not only effective but also scalable & secure."

Veriswitch's commitment to cleaning up the telecom industry highlighted the need for a solution that was not only effective but also scalable and secure. Veriswitch needed to provide virtually 100% uptime – with clients ranging from wholesalers to major carriers to direct call center operations. Any downtime could have immediate and far-reaching implications.

Vultr's tailored solutions for Veriswitch and SmartShield

Vultr provided Veriswitch with tailored cloud services and products to build a robust foundation for SmartShield's AI-driven functionalities. This collaboration entailed deploying optimized AMD instances chosen for their exceptional computing power, enabling the real-time processing of millions of calls and extensive data analysis tasks. To bolster performance and ensure data segregation, Veriswitch also utilized Vultr Bare Metal servers, which provided the dedicated resources needed for heavy computational tasks and database management. Using Vultr's servers also relocated tasks from shared environments and their potential for interference.

By implementing Vultr's optimized AMD instances and Bare Metal servers, Veriswitch gained the computational horsepower to process tens of millions of calls a second. This high-performance environment has enabled SmartShield to utilize its AI algorithms to their fullest potential, dramatically improving the speed and accuracy of spam call detection.

Implementing Vultr's Virtual Private Cloud (VPC) ensured the highest security and network isolation standards. This secure network environment allowed Veriswitch to maintain secure communications between the platform's infrastructure components, safeguarding sensitive call data against external threats. Vultr's direct support and uptime guarantees underscored their commitment to reliability.

With this strategic selection of Vultr's services, Veriswitch could fully leverage SmartShield, offering a solution surpassing the operational requirements for combating telecom fraud. The result is a solution of high-performance computing, dedicated resources, secure network architecture, and unwavering support. SmartShield sets a new benchmark in telecom security and fraud deterrence.

Vultr provides the power needed to protect the masses

A powerful synergy has grown between the pioneering SmartShield technology and Vultr's robust cloud services. Veriswitch's transition to Vultr infrastructure has been transformative. The partnership exceeded Veriswitch's operational demands, setting new telecom security and efficiency benchmarks.

By implementing Vultr's optimized AMD instances and Bare Metal servers, Veriswitch gained the computational horsepower to process tens of millions of calls a second. This high-performance environment has enabled SmartShield to utilize its AI algorithms to their fullest potential, dramatically improving the speed and accuracy of spam call detection. The ability to accurately intercept scam calls in real time is a giant leap forward in the fight against telecom fraud and all the ways it can disrupt the lives of everyday people, from election fraud, mortgage fraud, tax fraud, and financial fraud.

Vultr's Virtual Private Cloud (VPC) and uptime guarantees have fortified Veriswitch's infrastructure, providing robust security and reliability for SmartShield's uninterrupted operation. This has been critical for maintaining clients' trust, relying on Veriswitch to safeguard their operations against the evolving threat landscape. The enhanced security measures have also helped Veriswitch clean up the call center industry by supplying a reliable and scam-resistant communication network.

Perhaps most importantly, Veriswitch's partnership with Vultr enabled it to scale operations more efficiently than ever before. The flexibility of Vultr's cloud services has allowed Veriswitch to adapt to the rapid growth of its client base and the ever-increasing volume of telecommunications traffic. Given Veriswitch's mission to provide cutting-edge solutions to the telecom industry, this scalability ensures they stay at the forefront of innovation.

As Veriswitch co-founder Umberto Mautone puts it, "Vultr helps Veriswitch save the day."

Get started with your own Vultr success story.

Contact us at sales@vultr.com or visit vultr.com/sales.

