

Top Layer Protecting The National Lottery

Background

As operator of The National Lottery, Camelot runs one of the most cost-efficient lotteries in the world, with around 5 percent of total revenue taken in operating costs. Over £16.5 billion has been raised for good causes and more than 1,700 winners have become millionaires or multi-millionaires since launch.

Technology has played a crucial role in Camelot's success, and, when Camelot launched its interactive strategy, protecting the integrity of The National Lottery was of paramount importance. This explained its decision to embrace a network Intrusion Prevention System (IPS) and why it turned to Top Layer to deploy its unique Three Dimensional Protection (3DP) technology to guarantee The National Lottery's business continuity and data integrity.

The Challenge

Camelot embarked on the first stage of its interactive strategy with the launch of "Instant Win Games" – a mixture of online scratchcards and interactive games available to play at www.national-lottery.co.uk. The strategy was part of a wider plan to increase access to The National Lottery in order to grow sales incrementally and thereby maximize returns to good causes.

Security procedures are built into every aspect of Camelot's operation of The National Lottery, so it was essential to put measures in place to secure the integrity of the National Lottery website before it became transactional.

"Protecting our web infrastructure presence was our top priority – the integrity and security of The National Lottery is crucial to our success and it was essential prior to any interactive launches," said a Camelot spokesperson.

The challenge for Camelot was to find an IPS vendor that understood its requirements precisely, and which could offer a powerful, highly accurate, state-of-the-art business solution to protect Camelot's online presence, whilst maintaining network performance and availability.



A crucial requirement of online gaming is 0% packet loss, 100% uptime, and latency of less than 100 microseconds – well below the realms of human perception. In this case, it was imperative that the IPS solution could meet and continually adhere to these demanding criteria, whilst seamlessly integrating into Camelot's state-of-the-art gigabit network.

A solution that could enhance business continuity by offering unbeatable protection would have the ability to maximize online revenue and to keep customers coming back. This would address a cornerstone of the Camelot philosophy – to maximize returns to good causes through growing National Lottery sales in a socially responsible way.

The Solution

Camelot decided to deploy Top Layer's IPS 5500-1000 product as it became clear it was the only solution that could maintain network integrity by offering unparalleled network intrusion prevention without affecting network

CASE STUDY - CAMELOT NATIONAL LOTTERY

performance and reliability, with the use of its unique 3DP technology. In short, it gave Camelot peace of mind.

Two Top Layer IPS 5500-1000s were placed on the network in a monitor mode, ensuring a network traffic profile could be created and an accurate baseline established without affecting service.

Once a baseline profile of normal traffic had been created, a security policy was applied to the Top Layer IPS 5500-1000 to provide protection from three threat dimensions – malicious content, rate-based attacks, and undesired access. This was made possible in part by configuring the unit's transparent firewall module to ensure unwanted traffic was dropped and implementing a content inspection module policy to ensure protocol conformity to block viruses, worms, and Trojans launched against the online services. With Top Layer's 3DP technology, which identifies the 'contextual signature' of content and rate-based traffic using a multi-dimensional analysis of the traffic, Camelot would also have the best protection available against zero day attacks on its network.

With Top Layer's around-the-clock engineering and support resources deployed, the implementation of the project was completed well ahead of schedule.

"The installation went very smoothly and the Top Layer engineers displayed the utmost professionalism throughout the implementation process, whilst also integrating well with the in-house team," said a Camelot spokesperson.



The Result

With the Top Layer solution safely deployed, Camelot was able to successfully launch the first stage of its interactive strategy.

Lotto launched online and players can now also buy tickets for Thunderball, Daily Play, and EuroMillions – Europe's biggest lottery game by total population eligible to play – on the Internet and by text message through their mobile phone.

Sales through interactive channels now generate over £2 million per week and there are currently over 800,000 registered players.

"The 3DP technology within the Top Layer IPS 5500 has helped us achieve three things with regards to our website – security, reliability, and consistency," concluded a Camelot spokesperson. "We have a rock-solid web presence and the solution has been, and will be, a business enabler for Camelot for many years to come."

About Top Layer Security

Top Layer is dedicated to its role as the leading global provider of Network Intrusion Prevention Systems (IPS), developing and bringing to market network security infrastructure solutions that help commercial and government organizations protect their critical on-line assets from the losses and risks associated with cyber threats. Top Layer is headquartered in Massachusetts, USA with sales and services support worldwide.



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