

The Aftermath of Black Friday & Cyber Monday

# A Growing Threat to E-Commerce

Average Potential Losses for Businesses per Hour

## \$2.58M

While the holiday shopping season brings joy for consumers, it also signals an alarming rise in cybercrime.

As Black Friday and Cyber Monday come to a close, malicious bot traffic and fraud attempts continue to surge, posing a significant threat to e-commerce businesses. Throughout December, as consumers rush to complete their holiday shopping, businesses can expect to see an average potential loss of \$2.58 million per hour. With cybercriminals ramping up their efforts, understanding these trends is crucial for organizations to protect themselves from severe financial losses during the remainder of the holiday season. This report, powered by insights from the Cequence CQ Prime threat research team, highlights key security trends and provides actionable steps for businesses to stay ahead of evolving cyber threats.

### Transaction Volume E-Commerce Growth

This highlights the continued rise of e-commerce as businesses attract more consumers. However, with this growth comes an increased risk of exploitation by cybercriminals.

## 10.4B

5.1B +104% OVERALL TRANSACTIONS

2023 — 2024

14.5% MALICIOUS

34.6% MALICIOUS

MALICIOUS TRANSACTIONS +139%

### Malicious Traffic A Growing Danger

This illustrates how the rise in legitimate transactions has been matched—and even surpassed—by an alarming increase in fraudulent activity. A larger attack surface means cybercriminals are leveraging new strategies to disrupt businesses and exploit vulnerabilities.

### Potential Losses The Financial Toll

#### Black Friday — Cyber Monday

Nov. 22 - Dec. 2, 2024

Potential Losses:

## \$681M

During this 11-day stretch, businesses faced an astounding **\$681.12 million in potential financial losses**. This period marked the height of online shopping activity, making it a prime target for cybercriminals. Attacks during this time were dominated by tactics such as credential stuffing, fake account creation, and bot-driven inventory fraud, all of which directly impacted businesses' bottom lines.



#### Month of December 2024

Dec. 3 - Dec. 31, 2024

Potential Losses:

## \$1.79B

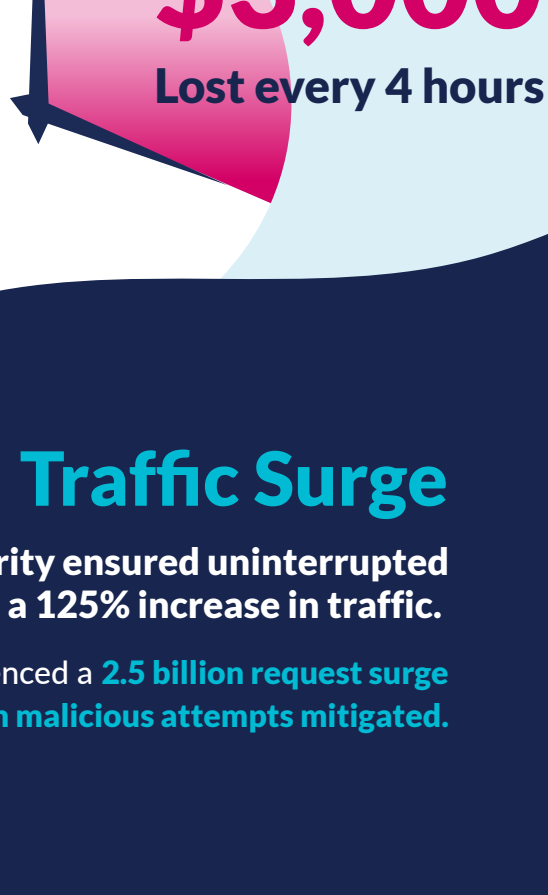
The surge in malicious activity will not stop after Cyber Monday. Throughout December, as consumers rush to complete their holiday shopping, businesses can expect to see an **average potential loss of \$2.58 million per hour, culminating in \$1.79 billion in losses by year-end**. This extended threat window shows that cybercriminals capitalize on every opportunity, using sophisticated attack methods to exploit high-traffic times.

### REAL WORLD APPLICATIONS

#### SMS Pumping Attacks Mitigated

Cequence Security's solution helped a major e-commerce company successfully mitigate an SMS pumping attack. The attackers exploited an account creation endpoint to trigger fraudulent SMS messages, resulting in significant financial losses.

**The fraudulent activity cost the company \$3,000 every four hours at peak.** Cequence's advanced bot and API protection identified the attack early and blocked the account creation process, effectively preventing further financial damage. The attack was mitigated starting in early November 2024, with the attackers ceasing their activity by the end of the same month.



#### Traffic Surge

Cequence Security ensured uninterrupted service despite a 125% increase in traffic.

A leading e-commerce brand experienced a **2.5 billion request surge** on Black Friday, with **11.5 million malicious attempts mitigated**.

### Mitigating High-Impact Threats

From credential stuffing to scraping attacks, Cequence Security stopped cybercriminals in their tracks.

**Credential Stuffing**  
 Malicious Requests Mitigated: **970,000**  
 Malicious IPs Blocked: **48,000**

**Scraping**  
 Malicious Requests Mitigated: **691,000**  
 Malicious IPs Blocked: **150,000**

### Total Traffic Handled for the E-Commerce Industry

Cequence Security safeguarded e-commerce platforms from a massive influx of malicious traffic, ensuring seamless customer experiences.

During the holiday week, Cequence Security managed 3.7 billion requests, blocking 317 million malicious requests.



### Total Mitigated Traffic A Wave of Activity

2023: 741.15M MITIGATED REQUESTS  
 2024: 1.28B MITIGATED REQUESTS  
**+72.6%**

### Rise of Distributed Credential Stuffing and Token Farming The Underestimated Threats

These attacks often go unnoticed because they use automated tools and hidden traffic. As businesses grow online, they become more vulnerable, giving cybercriminals a chance to exploit weaknesses and avoid detection, putting important systems and data at risk.

**Distributed Credential Stuffing:**  
 This is when cybercriminals use stolen usernames and passwords (often from past data breaches) to try to break into accounts. They use many different devices or IP addresses to hide their tracks and avoid getting caught.

**Token Farming:**  
 This involves using bots to gather special codes or credentials that allow access to restricted services or systems. Cybercriminals use this to exploit offers, access exclusive content, or carry out fraud.



### The Surge in Attacks

In 2023, there were 3.8 million blocked incidents from these types of attacks. In 2024, this number skyrocketed to 26.8 million, marking a 700% increase. This surge reflects the increasing sophistication and frequency of these attacks, as cybercriminals target high-value platforms with more advanced and automated tactics.

### Key Takeaways

**Malicious Traffic is Growing Faster Than Transactions**  
 As legitimate e-commerce growth continues, cybercriminals are scaling their attacks at a faster pace. This imbalance highlights an urgent need for businesses to rethink their security approach.

**Bot Protection Isn't Just for Cyber Monday**  
 Bots are constantly evolving, with credential stuffing and token farming attacks seeing a massive rise. Businesses can't afford to let their defenses lapse after Cyber Monday ends.

**The Financial Risk is Real**  
 With up to \$681 million in potential losses over the Black Friday-Cyber Monday period and \$1.79 billion throughout December, the cost of inaction is steep.

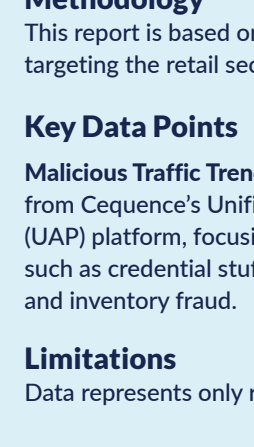
**The Christmas Rush Brings More Than Just Shoppers**  
 Cybercriminals use the Christmas shopping rush to conduct their biggest fraud campaigns. Without robust bot management systems, businesses are at risk of fraud, pricing scraping, and a degraded customer experience.

### Top 5 Tips to Defend Against Malicious Traffic

- TIP 1 Agent-Centric AI Security**  
 As digital threats evolve, Agentic AI security solutions rise to the challenge, surpassing traditional bot detection. By leveraging advanced machine learning, dynamically identify and mitigate sophisticated threats in real time, ensuring proactive and adaptive protection against malicious activity.
- TIP 2 Enhance Fraud Detection Algorithms**  
 Fraudulent transactions are on the rise. Strengthen your fraud detection systems to adapt to evolving threats like account takeover and credential stuffing.
- TIP 3 Leverage Multi-Layered Security Solutions**  
 Combine solutions like API protection, web application firewalls, and bot mitigation tools to address complex, multi-faceted attacks effectively.
- TIP 4 Invest in Real-Time API Protection**  
 As APIs become an increasingly attractive target for cybercriminals, it's crucial to implement real-time API security solutions to mitigate risk and protect sensitive data.
- TIP 5 Monitor Traffic and Transactions 24/7**  
 The holiday season doesn't take holidays. Constant monitoring of traffic and transactions can help businesses identify suspicious patterns and stop attacks before they cause harm.

### The Holiday Rush Continues Stay Ahead of Cybercriminals

With over a billion in malicious traffic already recorded, businesses must stay vigilant. The holiday shopping season isn't just about great deals—it's about protecting your revenue and your customers' trust. Investing in advanced bot and API protection will safeguard your business from malicious attacks, ensuring smooth and safe shopping experiences all month long.



Learn more about how Cequence Security's advanced API security and bot management solutions can protect your business from cyber threats throughout the holiday season and beyond.