The BOHH Security Appliance

Fintech Security Beyond Encryption

Securely transport *all data* with ZERO compromise to response time, performance, or customer accessibility

BOHH Eliminates:

- Data Transaction Hijack Attacks
- Piggy-Back Attacks
- Man-in-the-Middle Attacks
- Website Threats
- SQL Injection Attacks
- Public Wi-Fi Threats
- Internal Databases & Configuration Attacks

The Problem: A False Sense of Security

Breaches happen every day. Cyber threats can no longer be contained or eliminated by the tired, repackaged solutions currently on the market. It's time to rethink how you protect your customer data which is increasingly at risk with the growth in mobile and digital channels.

The Solution: BOHH Security Appliance

Meet BOHH: Our multifaceted security software solution immunizes networks from external and internal security flaws and threats. BOHH is a software and infrastructure agnostic appliance, and is easily deployed on top of existing infrastructure systems to securely transport account data. This means quick implementation with minimal impact on legacy systems and zero compromise to performance, speed, or customer accessibility.

BOHH autonomously reacts to all threats in real-time while storing no data, ensuring all incoming and outgoing messages are transacted securely by leveraging a patented encryption method and AI technology to manage ports, maintain a secure connection, and interact with the users request. This is all done in real-time with no latency or adjustments to your systems. By protecting data and infrastructure from within, we help mitigate costs both direct and hidden from a breach.

How We Do This: Unique Encryption & AI

BOHH is built not only to secure your databases and applications, but both our BOHH in-memory database and our appliance use AI technology to manage, maintain and protect against external and internal threats. With each data request, we use a patented block encryption system combined with our AI engine to pull up the right blocks and decrypt them. It then puts the data request together and passes it in memory. This is without any direct access to the server from the requester, preventing attacks and changes to confidential data.

Advanced Security

- Dynamically generates AES 256 encrypted message packets using a transient key (no key store management), for a fractional second in memory
- Digitally signs all requests & responses. Network sessions and keys are destroyed after each transaction
- Real-time on-prem in memory process: data is never stored or duplicated
- Additional Secure RESTful API add extra layers of security to the external connections (we don't deal with/rely on standard http protocols)

AI Technology

- Built on top of the Linux Kernel: OpenSUSE, Linux 4.10
- BOHH Labs Modules:
  - Cryptography
  - AI
  - Port Manipulation; BOT Compatibility
  - Dynamic Key Creation; Manipulation & Allocation, Block Transport of Messages
- Parallel Processing
- Service Manager

Technical Requirements

- Infrastructure agnostic appliance: deployed on the existing system between the banking infrastructure, firewalls and transactions with both cloud and on-premise implementations for backend banking platforms and data protection.
- BOHHiMT Secure in memory database for transient, temporal in-situ data that is never stored or duplicated on the server
- Acts as a Secure Gateway for network traffic: one request manages and handles all connections to legacy data and external world

We are redefining fintech security to become more dynamic within the existing system. Our solution is _unique_ because the BOHH Security Appliance has minimal impact to the legacy system it defends and it AUTOMATICALLY invalidates data when accessed by an unauthorized user

- **CEO and Founder, Simon Bain**

Key Benefits

- No overhead in terms of equipment or staff
- No downtime to implement or lag time on the system
- No 3rd party interaction. Data is automatically invalidated when accessed by unauthorized users
- Easy implementation on top of existing infrastructure systems
- Leverages existing infrastructure investments
- No migration of data required or legacy issues
- Customer-Facing: Secure 24x7 interaction across any device, from any location
- Real-time, secure transport of account data, without compromising speed or customer accessibility

We've Seen The Consequences. So Have You.

The cost of cybersecurity breaches are astronomical. But if you need more proof, contact us to learn more.

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About BOHH Labs

BOHH Labs is ushering in a new era of security for the Fintech market with a multifaceted solution that immunizes networks from brute force attacks, man-in-the-middle hacks, and quantum decryption. Built on a validated portfolio of patented IP, our security solution automatically invalidates data when accessed by intercepting parties and unauthorized users. BOHH autonomously reacts to internal and external threats in real-time, ensuring all incoming and outgoing messages are transacted securely. With this approach, Fintech organization can protect their banking infrastructure, brand and bottom line from the imminent threat of attacks without compromising speed or customer accessibility. BOHH Labs is headquartered in Oakland, CA, and has offices in Atlanta, GA, and New York.

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