



## Changing Compliance Mandates Drive an Urgent and Growing Need for Inline Visibility Solutions

**Visibility Compliance Saved This Payment Services Company \$3,000,000 in Tool Costs with a \$290,000 investment, for 10X ROI**

Leading financial and health institutions worldwide must revamp their data centers to comply with fast-changing national and industry regulations. This customer, a leading secure payment services company, provides solutions for small and large businesses, including payments online, card machines and telephone payments. After being found to have limited visibility into their network, the firm faced fines of \$10,000 US per day until Payment Card Industry Data Security Standard (PCI DSS) compliance was established. The potential seriousness of the penalty reflects the critical nature of a network carrying cardholder data for thousands of customers.

When the company turned to Ixia for a compliance solution, the resulting Ixia Visibility Architecture actually helped it save \$3,000,000 in tool costs following a mere \$290,000 investment. This amounts to a full 10X ROI.

### A Critical Need for Security Compliance

Like many others in the payment industry, this company recognized that lack of visibility and problem detection were major issues. They urgently needed to show PCI DSS compliance, but didn't know that sweeping cost savings and benefits would follow.

# Problem

Complying with These Rigorous PCI DSS Regulations:

#### Build and Maintain a Secure Network

This PCI DSS regulation says that a company install and maintain a firewall configuration to protect cardholder data. So the new Ixia architecture for this customer enabled cost-effective firewall scaling, and also validated firewall configurations via Ixia BreakingPoint™. Ixia's solution provides high availability (HA) access through iBypass™, as well as advanced traffic management with xStream™.

#### Protect Cardholder Data

In order to protect stored cardholder data, Ixia's solution gives the customer the ability to strip that data out. This capability enables protection of critical end-user information while reducing bandwidth on monitoring tools. The company can now encrypt transmission of cardholder data across open, public networks, an essential security safeguard.

#### Maintain a Vulnerability Management Program

In fulfilling this requirement, Ixia enabled the customer to make its monitoring cost-effective and efficient, with security tools addressing both physical and virtual workloads in one interface. This efficiency supports the regulatory compliance program and enables development and maintenance of solidly secure systems and applications.

#### Implement Strong Access Control Measures

To be in compliance and assure customer security, the customer needed the ability to restrict access to cardholder data by business need-to-know. With Ixia's solution, they can assign a unique ID to each person with computer access, restrict physical access to cardholder data, and regularly monitor and test networks, as well as track and monitor all access to network resources and cardholder data.

#### Regularly Test Security Systems and Processes

Ixia's BreakingPoint solutions provide an outstanding resource for security testing—especially with the benefit of the ATI subscription program. In addition, Ixia CyberRange™ works to help validate processes.

#### Maintain an Information Security Policy

Ixia's Visibility Architecture integrates with the customer's own security policies, making for easy deployment and contributing to higher security by providing intelligence on traffic profiles. Now the customer can maintain a company-wide policy that addresses information security for all personnel.

# Solution

**16 x Net Optics, iBypass HD, Inline Copper 10/100/1000**

**22 x Net Optics, iBypass, Heartbeat, Fiber 10GbE XFP Ports**

**2 x xStream 40GbE, 48 SFP+, 4 QSFP+ (or 16 more SFP+), AC, Aggregation, Filtering, Load Balancing**

Initially, this customer considered connecting multiple IPS appliances inline from a single vendor, but eventually added BlueCoat SSL Decrypt and FireEye security appliances to fortify the solution. The customer's security team was particularly enthusiastic about Ixia xStream's User Interface (UI), which gives them powerful, pervasive control of all their data sources from one central location. This feature minimizes interactions with other network personnel that could potentially delay access and troubleshooting.

#### Future Dividends

The Ixia solution offers the flexibility to enhance and expand the visibility infrastructure as needed next year as the project unfolds.

As financial data centers worldwide are overhauled and upgraded, IT teams are seizing the opportunity to phase out inefficient SPAN ports, deploy taps and bypass capabilities, and add advanced new layers of intelligence to their visibility architectures. Many of these projects include upgrades to 40GbE technology, which adds superior sensitivity to the network.

Many companies are implementing new or enhanced security defenses that similarly demand more robust monitoring capabilities for inline and out-of-band security. The benefits of including Network Packet Brokers in the architecture are becoming evident as this upgrade momentum builds.

The power of Ixia's comprehensive visibility portfolio combines iBypass and xStream solutions to provide single-source, end-to-end coverage, an ideal outcome for this customer.

This remarkably cost-efficient new solution exemplifies the key role that Ixia's capabilities play in achieving compliance while delivering a highly available visibility architecture with the scalability to meet future needs.

**“Upgrades provide a path for seamless security and compliance.”**

**“PCI DSS mandate: Build and maintain a secure network.”**

### Resources:

[PCI Compliance Quick Guide](https://www.pcisecuritystandards.org/documents/PCI%20SSC%20Quick%20Reference%20Guide.pdf)  
<https://www.pcisecuritystandards.org/documents/PCI%20SSC%20Quick%20Reference%20Guide.pdf>

[Ixia Inline Security Solutions](http://www.ixiacom.com/solutions/visibility/inline-security-solutions)  
<http://www.ixiacom.com/solutions/visibility/inline-security-solutions>

[Whitepaper: Eliminate Blind Spots in your Network](http://www.ixiacom.com/sites/default/files/resources/quick-reference-sheet/915-6771-01-visibility-solution-brief.pdf)  
<http://www.ixiacom.com/sites/default/files/resources/quick-reference-sheet/915-6771-01-visibility-solution-brief.pdf>

### Contacts:

RSM: Mikal Saboor  
Partner: Watermark Systems  
Distributor: Synnex  
SE: Stephen Bavington

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