



## SOLUTION BRIEF

# Zingbox + Ixia: Securing the Internet of Things

Purpose built-medical devices, PCs, smartphones, industrial sensors, and other devices all connect to the same Information Technology (IT) infrastructure creating an ever-growing Internet of Things (IoT). These IT/IoT devices must be protected from cyberattacks, but are not all designed to accommodate end-point software agents typically used to achieve visibility.

Zingbox and Ixia have teamed to deliver an agent-less, intelligent, more automated approach. Together, our solutions deliver highly scalable data collection across today's hybrid enterprise and healthcare networks.

### ZINGBOX: IOT SECURITY, MANAGEMENT AND OPTIMIZATION

Zingbox invented a personality-based approach to IoT security that discerns each device's behavior, detects suspicious activities, and enforces trust in all connected devices. By analyzing thousands of IT/IoT assets each day, Zingbox IoT Command Center solution helps organizations optimize utilization and reduce total cost of ownership (TCO). In addition, IT teams benefit from advanced security and device management through the IoT life cycle.

The solution also shares data with an enterprise asset management system to promote management of IT, IoT, Industrial IoT (IIoT) and the Internet of Medical Things (IoMT) assets from a single system. Zingbox IoT Command Center extends beyond traditional security solutions to deliver operational insights, promote compliance (e.g., HIPAA, HITECH), and support predictive measures for your entire IoT environment.

### HIGHLIGHTS

- Complete visibility into all connected IT/IoT devices
- Scalable, dynamic data collection across hybrid networks
- Automatic discovery, classification, and inventory of IT/IoT devices
- Risk/vulnerability detection
- Mitigation of zero-day attacks
- Identification of anomalies
- Promote HIPAA compliance
- Asset Management
- Micro-segmentation and access control



## IXIA: COMPLETE HYBRID NETWORK VISIBILITY

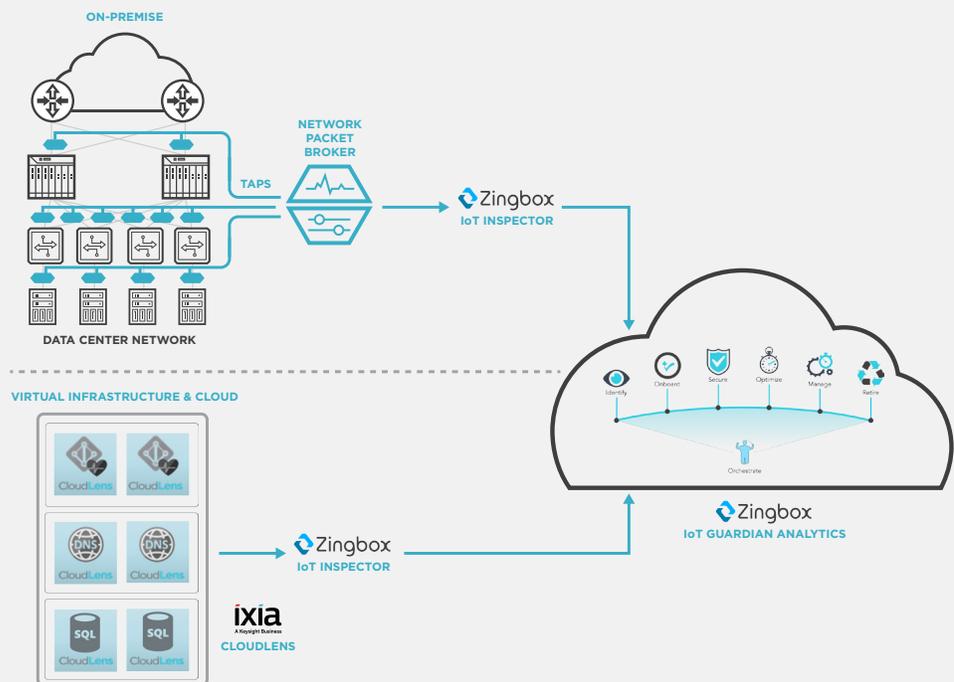
Zingbox IoT Inspectors are fed network data by network visibility solutions from Ixia. Complete hybrid network visibility is achieved through:

- Physical and virtual taps used to access data
- Vision network packet brokers (NPBs) that aggregate, process and deliver exactly the right data to each security and monitoring tool
- CloudLens SaaS and self-hosted visibility for private, public and hybrid clouds

Ixia's intelligent NPBs load balance traffic to optimize utilization while ensuring Zingbox of access to reliable, ubiquitous data. Optionally, Vision NPBs can filter out duplicate traffic, mask sensitive data to support compliance, and easily share traffic with all security tools that need to see it.

Figure 1

Visibility Architecture to Secure IoT, IIoT, and IoMT.



## HOW IT WORKS

Zingbox IoT Inspectors collect data using a network-based, agentless approach that does not depend on operating systems, plug-ins, or installed applications to classify and provide device context. Armed with complete data about IoT devices, Zingbox IoT Inspectors process and deliver information to the IoT Guardian Analytics SaaS hosted in the cloud.

Zingbox IoT Guardian utilizes deep machine learning and artificial intelligence (AI) technologies to dynamically identify IoT devices based on category, manufacturer, model, and specific environmental context. Device characteristics are analyzed to access each device personality, intended uses, behaviors, and vulnerabilities.

Unlike pattern- or signature-based solutions, Zingbox IoT Guardian can also detect zero-day attacks. The joint solution seamlessly integrates with existing IT security infrastructures to provide proactive, and real-time protection against emerging threats and attacks.

## ABOUT ZINGBOX

Zingbox is the provider of the most widely deployed Internet of Things (IoT) lifecycle management solution. Recently named a “Cool Vendor in IoT Security” by Gartner and recipient of the Gold Stevie Award for Most Innovative Company, Zingbox helps organizations realize the full potential of their IoT devices, delivering a new standard for uninterrupted service through device inventory, security, management and optimization for the entire IoT environment. The company’s device-specific AI-powered machine learning platform uses the first real-time deep behavioral learning technology for IoT devices.

Visit [www.zingbox.com](http://www.zingbox.com) for more information.



**Learn more at: [www.ixiacom.com](http://www.ixiacom.com)**

For more information on Ixia products, applications, or services, please contact your local Ixia or Keysight Technologies office.

The complete list is available at: [www.ixiacom.com/contact/info](http://www.ixiacom.com/contact/info)