

SecureStack

Visibility is Security

Problem

Networks have data that we need to secure and there are many things to do to achieve this security:

- Inspecting encrypted traffic
- Monitoring who is on the network and evaluating patterns
- Masking sensitive data

Each of these activities is important, but unfortunately, tends to come with a specialized appliance. Each of these appliances can cost thousands of dollars each creating a significant financial burden. Beyond that, learning and maintaining each of these appliances over-extends IT and security teams and prevents from focusing on real risks when they occur.

The modern organization needs a way to streamline how they secure their network. Simplifying the setup and management without compromising on security.

Solution

Ixia allows organizations to shed the burden of many appliances by offering SecureStack capabilities on its visibility platforms – network packet brokers and CloudLens. Organizations know that security is visibility – you have to see the data to be able to secure it and prevent attacks. With Ixia visibility you can decrypt and encrypt data, receive a threat insights feed about your network and have the ability to mask data on your network without specialized appliances. Saving your organization dollars, helping IT and security teams, and all while better protecting your network.



Highlights



- Streamline security by leveraging network packet brokers/visibility platform
- Greater visibility by decrypting traffic to detect malware, prevent data loss, monitor applications and more
- Offload the SSL decryption work and remove your network performance bottleneck
- **Supports all leading ciphers**
- Secure PII traversing the network, keeping your consumers and organization safe with data masking +
- Get Insight to potential threats on your network





SecureStack

Key Features


Feature	Function
 <p>Active SSL</p>	<p>Encrypted traffic has become a dual-edged sword. The same encryption we use to protect data has become the vehicle hackers manipulate to inject malware and other threats into a network. As most traffic becomes encrypted and with ephemeral key on its way to becoming the dominant technology, organizations need a way to retain the benefits of TLS 1.3 standards, while being able to inspect traffic for threats and malware to protect their networks and users.</p> <p>Fewer than 20% of firewalls, UTM and IPS deployments support decryption, and next generation firewalls can experience an average performance loss of 74% when using 512b and 1024b ciphers, and 81% when using 2048b ciphers.¹</p> <p>Ixia's Active SSL capability enables organizations to see inside traffic that uses ephemeral key cryptography through its visibility platform. With Ixia's Active SSL you can:</p> <ul style="list-style-type: none"> • Decrypt once and scale monitoring infrastructure. Offloading SSL decryption will optimize security and monitoring tool performance • Deploy inline, out-of-band (OOB), and simultaneous inline and OOB configurations for the ultimately flexibility • See into both outbound and inbound traffic to inspect downloads and detect server attacks • Achieve limitless visibility when used with Ixia's NetStack, PacketStack and AppStack capabilities <p>Active SSL is available via a high-performance application module that is compatible with Vision ONE</p> <ul style="list-style-type: none"> • Active SSL employs a dedicated cryptographic processor, to provide the best throughput integrated with a visibility solution • Throughput options include 1G, 2G, 4G or 10G (license per module). Upgrades via licensing • Includes built-in policy management, URL categorization, and real-time insight through reporting • Supports all leading ciphers
 <p>Passive SSL Decryption</p>	<ul style="list-style-type: none"> • Get visibility to encrypted sessions without compromising security with role-based access controls and bidirectional decryption capability • Handle 10 million concurrent sessions with up to 8Gbps throughput • Support encryption ciphers and key sizes: 3DES, RC4, AES, SHA1/521/384/256/224, MD5, ECC (Elliptic Curve), RSA and Diffie-Hellman Key Exchange • No impact on application identification and filtering performance • Can work simultaneously with NetFlow generation, data masking, PCAP, and application forwarding





SSL Comparison		
	 Active SSL Decryption and for ephemeral key cryptography	 Passive SSL Decryption
SSL/TLS Versions	TLS1.0, TLS1.1, TLS1.2	TLS1.0, TLS1.1, and TLS1.2
Asymmetric Key Exchange	RSA, ECDH, ECDHE	RSA and ECDH
Symmetric Keys	AES and 3DES	AES, 3DES, and RC4
Hashing Algorithms	SHA and AEAD	SHA and MD5
Maximum concurrent sessions	150,000	Over 1,000,000
Private Key Storage	Encrypted and 'write only' TBD	Encrypted and 'write only'






Feature	Function
 Threat Insight	<p>Today's organizations are under cyberattack. Malware can find its way into an organization in a multitude of ways including email, clicking on malicious links, mobile devices, USBs used by employees, as well as physical intrusions into a network. Cyber Security Ventures reported that ransomware will attack a business every 14 seconds by the end of 2019.¹</p> <p>With Ixia's threat insights feature, you will be able to:</p> <ul style="list-style-type: none"> Recognize malware, botnet, exploits, hijacked IPs and phishing activity with your Vision ONE, Vision 7300, or CloudLens Send threat information automatically via NetFlow to existing security appliances <p>Threat insights from Ixia's Application and Threat Intelligence (ATI) Research Center, also used in Ixia's ThreatARMOR, provide what you need to secure your network without requiring any additional threat intelligence feed. You can ensure the security of your network by easily:</p> <ul style="list-style-type: none"> Detecting IoT attacks Tagging suspicious or rogue applications and monitoring them for unusual activity Tracking traffic to or from unauthorized geographies Tracking questionable file transfers and brute-force attacks
 Data Masking Plus	<p>Achieve Payment Card Industry Data Security Standard (PCI-DSS), HIPAA and other regulatory compliance by leveraging pre-defined data patterns. With personally identifiable information traversing the network, security is key to keeping your consumers and your organization safe.</p> <ul style="list-style-type: none"> Can work simultaneously with NetFlow generation, data masking, PCAP, and application forwarding Pre-defined patterns to mask – including major credit card, SSN and email addresses Reduce false positives with the built-in credit card number validation using the Luhn algorithm Data masking at the packet level using a user configurable offset with any number of bytes Target field identified by user-defined regular expression

Availability and Ordering Information

SecureStack is available on Ixia Vision ONE & TradeVision, Vision 7300, and CloudLens

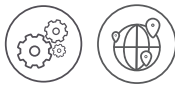

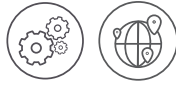









	Vison one	Vision 7300	CloudLens
	Ixia's turnkey network packet broker	Ixia's highest capacity network packet broker	Ixia's platform for public, private and hybrid cloud visibility
Baseline Platform Requirements	Chassis (options) <ul style="list-style-type: none"> • SYS-V1-48PX-AC • SYS-V1-48PX-DC • SYS-V116PX8PGAC • SYS-V116PX8PGDC • SYS-V14PX16PGAC 	Chassis <ul style="list-style-type: none"> • SYS7300-STD • SYS7303-STD Module <ul style="list-style-type: none"> • M7300-SSAS-48PX: Ixia Vision 7300 family - module to deliver AppStack (ATIP) and SecureStack (SSL) capabilities - with 48 SFP+ ports (992-0050) 	Virtual Tapping (options) <ul style="list-style-type: none"> • LIC-CL-VTAP-10 • LIC-CL-VTAP-50 • LIC-CL-VTAP-100 • LIC-CLVTAP-250 • LIC-CL-VTAP-1000 • SUB-CL-VTAP-1000 • SUB-CL-VTAP-CSMP • SUB-CL-VTAP-AG100 • SUB-CL-VTAP-AG250 • SUB-CL-VTAP-AG1000
 <p>Active SSL</p>	Module & License Bundles <ul style="list-style-type: none"> • MV1-ASSL-1G: Ixia Visibility Application Module bundled with Secure Stack - Active SSL license included - 1Gbps (992-0087) • MV1-ASSL-2G: Ixia Visibility Application Module bundled with Secure Stack - Active SSL license included - 2Gbps (992-0088) • MV1-ASSL-4G: Ixia Visibility Application Module bundled with Secure Stack - Active SSL license included - 4Gbps (992-0089) • MV1-ASSL-10G: Ixia Visibility Application Module bundled with Secure Stack - Active SSL license included - 10Gbps (992-0086) 		

	Vison one	Vision 7300	CloudLens
 Threat Insight  Passive SSL Decryption  Data Masking Plus  + All AppStack Features	<p>Subscription - Hardware Activation & Features</p> <ul style="list-style-type: none"> • SUB-V1-SSAS: Ixia Vision ONE subscription of one-year SecureStack (Passive SSL Decryption) and AppStack (ATIP) license. Includes Passive SSL Decryption and all AppStack features, including the ATI Subscription. (993-0113) • 909-5018: Ixia renewal subscription of one-year of SecureStack (Passive SSL Decryption) and AppStack (ATIP) license for Vision ONE and Vision 7300. Includes SSL Decryption and all AppStack features, including the ATI Subscription. (909-5018) 	<p>Full Subscription</p> <ul style="list-style-type: none"> • SUB-7300-SSAS: Ixia Vision 7300 one-year subscription of SecureStack (Passive SSL Decryption) and AppStack (ATIP) license for M7300-SSAS-48PX. Includes SSL Decryption and all AppStack features, including the ATI Subscription. (993-0049) • 909-5018: Ixia renewal subscription of one-year of SecureStack (Passive SSL Decryption) and AppStack (ATIP) license for Vision ONE and Vision 7300. Includes SSL Decryption and all AppStack features, including the ATI Subscription. (909-5018) <p>Perpetual</p> <ul style="list-style-type: none"> • LIC-7300-APPS: IXIA Vision 7300, AppStack Add-on perpetual license for App Filtering, NetFlow, IxFlow, Masking, Regex and Passive SSL. QTY (1) per line card (993-0140) 	<p>Subscription (no SSL Decryption)</p> <ul style="list-style-type: none"> • SUB-CL-AS-1-F: Ixia CloudLens Private with AppStack (ATIP). Full Feature pack, first year subscription, 1 instance (954-4064) • 909-5021: Ixia renewal subscription for SUB-CL-AS-1-F. CloudLens private virtual packet processing with AppStack (ATIP) features (909-5021) <p>Perpetual</p> <ul style="list-style-type: none"> • LIC-CL-AS-1-F: Ixia CloudLens Private with AppStack (ATIP). Full Feature pack, perpetual license, 1 instance (954-4065)
	<p>Hardware Activation</p> <ul style="list-style-type: none"> • LIC-V1-SSAS-E: Ixia Vision ONE hardware enablement license for SecureStack (Passive SSL Decryption) and AppStack (ATIP) at entry-level performance - QTY (1) (993-0101) • LIC-V1-SSAS-F: Ixia Vision ONE hardware enablement license for SecureStack (Passive SSL Decryption) and AppStack (ATIP) at full performance - QTY (1) (993-0102) • LIC-V1-SSAS-U: Ixia Vision ONE hardware enablement upgrade license to enable SecureStack (Passive 	<p>Hardware/Dashboard License</p> <ul style="list-style-type: none"> • LICS-7300-SSAS-F: IXIA Vision 7300, License for AppStack dashboard at full performance - QTY (1) per line card (993-0141) 	

	Vison one	Vision 7300	CloudLens
	<p>SSL Decryption) and AppStack (ATIP) capabilities (from entry-level to full performance) - QTY (1). Requires additional licenses for features. (993-0104)</p>		
 <p>Threat Insight</p>  <p>+ Application Identification (AppStack)</p>	<ul style="list-style-type: none"> • SUB-V1-APTL: Ixia Vision ONE AppStack (ATIP) one-year subscription license. Includes Application Identification & Filtering, Geolocation & tagging, Application and Threat Intelligence (ATI) data feed - QTY (1) (993-0112) • 909-5019: Ixia Vision ONE AppStack (ATIP) renewal license for SUB-V1-APTL. Includes Application Identification & Filtering, Geolocation & tagging, Application and Threat Intelligence (ATI) data feed - QTY (1) (909-5019) 	<ul style="list-style-type: none"> • SUB-7300-APTL: Ixia Vision 7300 AppStack, first year subscription license, required per line card. Includes Application signature updates and Threat insight feature and updates. QTY (1) (993-0077) 	
 <p>Passive SSL Decryption</p>	<p>LIC-V1-PSSL: Ixia Vision ONE SecureStack - Passive SSL Decryption feature license - QTY (1) (993-0110)</p>		
 <p>Data Masking Plus</p>  <p>+ RegEx Filtering (AppStack)</p>	<p>LIC-V1-MASK-REGX: Ixia Vision ONE - Data masking plus (SecureStack) and Regular Expression Filtering (AppStack - ATIP) feature license- QTY (1) (993-0118)</p>		
<p>Bundles: System + Licenses</p>	<ul style="list-style-type: none"> • SYS-V14PX16PGAC • SYSV1FC8PX4P4XAC 		



















	Vison one	Vision 7300	CloudLens
Security Bundles	<ul style="list-style-type: none"> • BD-V1-ASSL-1G • BD-V1-ASSL-2G • BD-V1-ASSL-4G • BD-V1-ASSL-10G • BD-V1TAMR-ASSL-1G • BD-V1TAMR-ASSL-2G 		

Vision One

Features	Perpetual	Subscription
Application Identification, Geolocation, Application-based filtering & IxFlow (with NetFlow License)	 SUB-V1-APTL 909-5019	 SUB-V1-APTL 909-5019  SUB-V1-SSAS 909-5018
NetFlow Generation (Includes IxFlow if App Intelligence is licensed)	 LIC-V1-NTFL	 SUB-V1-SSAS 909-5018
RegEx filtering & Data Masking	 LIC-V1-MASK-REGEX	 SUB-V1-SSAS 909-5018
Passive SSL decryption	 LIC-V1-PSSL	 SUB-V1-SSAS 909-5018
Core – Performance	 *LIC-V1-SSAS-E  *LIC-V1-SSAS-F	 SUB-V1-SSAS 909-5018

**LIC-V1-SSAS-E can be upgraded to LIC-V1-SSAS-F by using LIC-V1-SSAS-U*

Vision 7300

Features	Perpetual	Subscription
Application signature updates and Threat insight feature and updates	  <p>SUB-7300-APTL 909-5019</p> 	  <p>SUB-7300-APTL 909-5019</p>  <p>SUB-7300-SSAS 909-5018</p>
App Filtering, NetFlow, IxFlow, Masking, Regex and Passive SSL	  <p>LIC-V7300-APPS 909-5019</p>   	  <p>SUB-7300-SSAS 909-5018</p>   
Core – Performance	 <p>LIC-V1-SSAS-F</p>	 <p>SUB-7300-SSAS 909-5018</p>

Specifications for M7300-SSAS-48PX

General Specifications	
Performance <ul style="list-style-type: none">All ports are bidirectional and fully non-blockingFull line-rate across all ports with filtering enabled	Management <ul style="list-style-type: none">SNMP v1, v2, v3 supportLocal, RADIUS, and TACACS+ support (members and groups)Granular access control featuresEvent monitoring and loggingSyslogIT Automation control with web-based API
Physical Specifications	
<ul style="list-style-type: none">1U high interface card for 19" chassisDimensions: 17.5W x 15L x 1.75H (inches)Weight: 17.0lb (7.7 kg)	<ul style="list-style-type: none">Operating input voltage: -40 to -60VDCNominal current: 4.15A @ -53VDC, 220WMaximum operating input current: 5.5A @ 40VDC, 220W maxHeat/power dissipation for module at 100% traffic load: maximum 220W / 751 BTU/hour
Operating Specifications	
Temperature <ul style="list-style-type: none">Operating: 5°C to 40°CShort-term*: -5°C to 55°C (*not to exceed 96 consecutive hours)Short-term* with fan failure: -5°C to 40°C (*not to exceed 96 consecutive hours)	Humidity <ul style="list-style-type: none">Operating: 5% to 85%, (non-condensing)Short-term*: 5% to 90% (non-condensing, *not to exceed 96 hours)

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