

VISION ONE: SECURITY WITHOUT SACRIFICE



DATA SHEET

Amplify your security without changing a cable. Vision ONE provides IT Operations the ability to deploy resources where they are needed most and secure any traffic in their network.

Vision ONE acts as the first step to security, providing reliable inline connectivity for security tools such as intrusion prevention systems (IPS), data loss prevention (DLP), and Web firewalls. It simultaneously connects out-of-band monitoring tools like intrusion detection systems (IDS) and data recorders.

Integrated intelligence features enable you to access encrypted traffic using SSL decryption, reduce analysis traffic using advanced packet processing, and precisely select traffic by application type, geography, and device criteria using deep packet inspection (DPI). Vision ONE forwards selected traffic in a variety of formats to interoperate with any security tool.

PRODUCT FEATURES

- **Powerful GUI** allows you to focus on security rather than configuration—the industry-leading user interface and patented filter compiler make configuration simple for both inline and out-of-band topologies
- **SSL decryption** provides downstream security tools with plain text content so they do not need to support or incur the performance overhead of decrypting traffic to find hidden threats
- **Zero-loss advanced packet processing** improves security tool efficiency through techniques such as deduplication and packet trimming
- **Deep packet inspection** classifies traffic in real time and directs it to the correct tool according to parameters such as application type, geolocation, or even handset type—so tools get just the traffic type they need, again optimizing your investment in tool infrastructure

HIGHLIGHTS

- Extends the reach of security tools to access the entire network
- Supports inline and out-of-band monitoring use cases
- SSL decryption with stateful, clear text output
- Supports scaling your security infrastructure in more manageable steps
- Supports line-rate packet deduplication, header stripping and other advanced features
- Supports L2GRE termination from vTap
- Enables identification of applications by bandwidth, session, and geography
- Supports simultaneous packet forwarding and generation of NetFlow v9 and v10 records
- Delivers frequent updates via ATI subscription



- **Sophisticated load balancing** distributes traffic across a number of tools for monitoring or inline in serial or parallel to maximize up-time and ensure that no critical data is lost
- **Comprehensive wizards** makes inline tool deployment extremely easy
- **Space efficient 1RU design** saves rack space in your data center

PRODUCT CAPABILITIES

FULL-RATE INTELLIGENT PACKET PROCESSING

- Modify every packet at line-rate using any combination of Ixia's Advanced Feature Module (AFM) operations:
 - Deduplication, trimming, timestamping, 1G burst protection and data masking
 - Head stripping that includes VLAN, FabricPath, VNTag, GTP, MPLS, VxLAN, L2GRE, ERSPAN
 - L2GRE tunnel termination from vTAP
 - Flexibly assign 160Gbps total processing capacity to any port in 10Gbps increments

INLINE-SPECIFIC FEATURES

- Supports failsafe serial service chaining, parallel load balancing with spares, or combined topologies
- Customizable heartbeat (HB) support to detect and automatically recover from monitoring and security tool failures
- Multiple HB templates allow each tool to have its own unique HB
- Bypass switches and Vision ONE can have different HB so multi-tier design is possible to increase overall resilience

IXIA'S APPLICATION AND THREAT INTELLIGENCE (ATI) PROCESSOR

- Performs DPI to identify traffic according to:
 - Application, geography, device information, and service provider
 - Application signatures are regularly updated via ATI subscription
- SSL decryption supported ciphers:
 - 3DES
 - RC4
 - AES
 - SHA1/521/384/256/224
 - MD5



Ixia's Application and Threat Intelligence Processor (ATIP) provides easy-to-use graphical displays of the traffic captured by Vision ONE

- SSL/TLS Decryption Support:
 - SSL/TLS Versions: SSL3.0, TLS1.0, TLS1.1 and TLS1.2
 - Asymmetric Key Exchange: RSA and ECDH
 - Symmetric Keys: AES, 3DES and RC4
 - Hashing algorithms: SHA and MD5
 - Maximum concurrent sessions: Over 1,000,000
 - Private key storage: Encrypted and 'write only'
- Regular expression matching
- Data masking to protect sensitive data such as credit cards and personally identifiable information (PII)
 - Target field identified by user-definable regular expression
 - Default regular expressions provided for commonly request data patterns such as credit card numbers
- Multiple actions can be taken on matching sessions
 - Forward all related packets to an analysis tool
 - Enhanced NetFlow v9 and v10 and IPFIX can be generated and sent to up to 10 collectors
- Simple pricing
 - ATI subscription includes all current and new features and application signatures released

SPECIFICATIONS

| GENERAL SPECIFICATIONS | |
|---|---|
| <p>Performance</p> <ul style="list-style-type: none"> • 1U Security Appliance • In-band or passive deployment • Full line rate across all ports with blocking enabled • Reporting, blocking, or fail-safe bypass operation • Always-on ATI cloud security service • Heat/power dissipation for module at 100% traffic load: 660W / 2252 BTU/hour | <p>Management</p> <ul style="list-style-type: none"> • SNMP v1, v2, v3 support • SNMP v1, v2, v3 support • Supports IEEE / Precision Time Protocol (PTP) time synchronization • Local, RADIUS, and TACACS+ support (members and groups) • Granular access control features • Event monitoring and logging • Syslog • IT Automation control with RESTful API |
| PHYSICAL SPECIFICATIONS | |
| <p>Vision ONE Size, Weight and Compliance</p> <ul style="list-style-type: none"> • 1RU high 19" rack-mountable chassis • Dimensions: 17.5W x 29.5L x 1.75H (inches) / 44.5W x 75.0L x 4.5H (cm) • Weight: 36.4lb / 16.5kg • ROHS • IEC-60950-1:2005, UL60950-1, and CSA C22.2 No. 60950-1, EN 60950-1, CE, FCC, AS/NZS CISPR 22 & 24, 55022, 55024, IEC-003 | <p>Power for Vision ONE (AC)</p> <ul style="list-style-type: none"> • Dual AC power supplies • Hot Swappable • Nom. current: 6.6A@100VAC, 2.75A@240VAC • Max. operating input current: 7.7A@100VAC • Max. operating input current: 3.2A@240VAC <p>Power for Vision ONE (DC)</p> <ul style="list-style-type: none"> • Dual AC power supplies • Hot Swappable • Operating input voltage: 40 to 60VDC • Nom. current: 12.5A @ 53VDC • Max. operating input current: 19.25A @ 40VDC |

OPERATING SPECIFICATIONS

| Temperature | Humidity |
|---|---|
| <ul style="list-style-type: none"> Operating: 5°C to 40°C Short-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) | <ul style="list-style-type: none"> Operating: 5% to 85% (non-condensing) Short-term*: 5% to 90% (non-condensing, *not to exceed 96 hours) |

ORDERING INFORMATION

Solution Ordering Information

Solutions include Vision ONE hardware with 48 physical SFP/SFP+ ports and 4 QSFP+ ports. Transceivers are not included. Compatible transceivers are available and may be purchased from Ixia. All solutions are configured with dual power supplies. Additional licenses may be added to a system to enable additional ports, Advanced Packet Processing, or Application and Threat Intelligence.

| VISION ONE BASE UNITS | NUMBER OF PHYSICAL PORTS | | LICENSED PORTS | | |
|--------------------------|-------------------------------|-----------------------------|------------------------------------|-------------------------------------|----------------------------------|
| | 1/10G HW PORTS INCLUDED | 40G HW PORTS INCLUDED | PORTS LICENSED FOR 1G USE | PORTS LICENSED FOR 10G USE | PORTS LICENSED FOR 40G USE |
| SYS-V-ONE-1610G81G-AC | 48 | 4 | 8 | 16 | 0 |
| SYS-V-ONE-1610G81G-DC | 48 | 4 | 8 | 16 | 0 |
| SYS-V-ONE-410G161G-B1-AC | 48 | 4 | 16 | 4 | 0 |

License Ordering Information

Software licenses can be added to any of the Vision ONE hardware components or solutions. A fully licensed chassis supports 48 ports of 1G/10G, 4 ports of 40G, 160Gbps of AFM and ATIP.

| VISION ONE PORT LICENSES | |
|--------------------------------|---|
| HARDWARE COMPONENT PART NUMBER | DESCRIPTION |
| LIC-SYS-V-ONE-X8D-UP | Upgrade 8 ports of 1G to 1/10G operation. |
| LIC-SYS-V-ONE-X24D | 24-port perpetual license for 1G/10G operation. |
| LIC-SYS-V-ONE-X8D | 8-port perpetual license for 1G/10G operation. |
| LIC-SYS-V-ONE-X4D | 4-port perpetual license for 1G/10G operation. |
| LIC-SYS-V-ONE-G24D | 24-port perpetual license for 1/G operation. |
| LIC-SYS-V-ONE-Q4D | 4-port perpetual license for 40G operation. |

| VISION ONE AFM THROUGHPUT LICENSES | |
|------------------------------------|--|
| HARDWARE COMPONENT PART NUMBER | DESCRIPTION |
| LIC-SYS-V-ONE-80G-AFM | 80Gbps of AFM includes de-dup, header stripping, slicing, and timestamping. |
| LIC-SYS-V-ONE-40G-ADV-FULL | Advanced full license that enables advanced packet processing functionality at 40G operation. |
| LIC-SYS-V-ONE-10G-ADV-ENTRY | Advanced entry license that enables advanced packet processing functionality at 10G operation. |

| VISION ONE AFM CAPABILITY LICENSES | |
|------------------------------------|--|
| HARDWARE COMPONENT PART NUMBER | DESCRIPTION |
| LIC-SYS-V-ONE-ADV-TUNNELING | Feature license that enables advanced packet tunneling feature. |
| LIC-SYS-V-ONE-ADV-STRIPPING | Feature license that enables advanced packet stripping feature. |
| LIC-SYS-V-ONE-DEDUP | Feature license that enables advanced packet de-duplication feature. |
| LIC-SYS-V-ONE-ADV-TIMESTAMP | Feature license that enables advanced packet time stamping feature (PTP timestamps). |

| VISION ONE ATIP THROUGHPUT LICENSES | |
|-------------------------------------|--|
| HARDWARE COMPONENT PART NUMBER | DESCRIPTION |
| SUB-SYS-V-ONE-ATIP | ATI (Application and Threat Intelligence) Processor One-Year License. Enables application use and software updates. Does not enable ports. Application will not function without a valid license installed. Includes all ATIP functions. |
| LIC-SYS-V-ONE-ATI-ENTRY | Advanced entry-level license to enable ATI. ATIP Capability Licenses must be ordered. |
| LIC-SYS-V-ONE-ATI-FULL | Advanced full-level license to enable ATI. ATIP Capability Licenses must be ordered. |

| VISION ONE ATIP CAPABILITY LICENSES | |
|-------------------------------------|---|
| HARDWARE COMPONENT PART NUMBER | DESCRIPTION |
| LIC-SYS-V-ONE-ATI-NETFLOW | Feature license that enables ATI NetFlow feature. |
| LIC-SYS-V-ONE-ATI-SSL-DECRYPT | Feature license that enables ATI passive SSL feature. |
| SUB-SYS-V-ONE-ATI-APPINTEL | Feature license that enables ATI filtering on applications, custom applications, and geolocation feature. |

| VISION ONE ADVANCED INLINE CAPABILITIES LICENSE | |
|---|-------------------------------|
| HARDWARE COMPONENT PART NUMBER | DESCRIPTION |
| LIC-SYS-V-ONE-INLINE | Enables inline functionality. |

Additional Licenses Ordering Information

| VISION ONE ATIP LICENSES (RENEWALS) | |
|-------------------------------------|---|
| Hardware Component Part Number | Description |
| SUB-ATIP-RENEWAL | NTO Net Tool Optimizer ATI processor renewed one-year subscription license. |
| SUB-ATI-APPINTEL-RENEWAL | NTO Net Tool Optimizer series renewed one-year subscription license. |

| VISION ONE ACCESSORIES, UPGRADES AND SPARE LICENSES | |
|---|--|
| HARDWARE COMPONENT PART NUMBER | DESCRIPTION |
| SYS-V-ONE-FAN-ASSY | One fan module unit. |
| SYS-ONE-AC-POWER | One AC power module. |
| SYS-ONE-DC-POWER | One DC power module. |
| LIC-SYS-V-ONE-SPARE | Cold spare system port license. |
| LIC-SYS-V-ONE-ADV-UP | Feature license upgrade advanced packet license |
| LIC-SYS-V-ONE-ATI-UP | Upgrade license for Application Threat Intelligence base from entry-level to full performance. |

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