Appliance and sensor specifications

Vectra® appliances and sensors provide full visibility into cyberattacker behaviors from cloud and data center workloads to user and IoT devices. Regardless of size or geographic spread, Vectra appliances and sensors provide consistent enterprise-wide threat detection coverage, leaving attackers with nowhere to hide.

As the brain of security operations, Cognito runs on the X-series platform, which receives input from multiple S-series sensors.

Included in your Cognito subscription, software updates with new threat detection algorithms are delivered to customers on a regular basis to ensure they are continuously protected from the latest advanced threats.

S-series sensors can be physical or virtual and receive input from third-party sources in the form of logs from security products, authentication systems, SaaS applications or indicators of compromise.

To extend the reach of Cognito, S-series sensors are easily deployed at remote sites or with access switches on internal network segments. They passively monitor network traffic, extract critical metadata and forward it to the brain for analysis and threat detection.

S-series sensors can be deployed in-line as a bump-in-the-wire that fails-open or on a SPAN port or network TAP. The small size and simple deployment model of S-series sensors ensure that there is comprehensive coverage across the entire network, especially at remote offices, clinics and retail locations.

For network locations where scalable sensors are required, the X-series appliance can be deployed as a sensor for the brain. As a sensor, the X-series is deployed on a SPAN port or network TAP.

Virtual sensors

Virtual sensors, known as vSensors, run in VMware ESXi 5.0 or later, making it easy to extend Cognito threat detection coverage across the physical network and into virtualized data centers. The vSensors can connect to any VMware vSwitch in the data center to provide visibility into all traffic and detect threats that pass between workloads in the virtual environment. Cognito also integrates with VMware vCenter so it has authoritative, always up-to-date views of the virtual environment.
### X-Series Appliances

**S-Series Sensors**

#### ALGORITHMS

<table>
<thead>
<tr>
<th>FIPS 140-2</th>
<th>FIPS-Approved Algorithms:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Validated</td>
<td>• AES (Cert. #2273)</td>
</tr>
<tr>
<td></td>
<td>• HMAC (Cert. #1391)</td>
</tr>
<tr>
<td></td>
<td>• DSA (Cert. #709); ECDSA (Cert. #368)</td>
</tr>
<tr>
<td></td>
<td>• RSA (Cert. #1166)</td>
</tr>
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<td></td>
<td>• SHS (Cert. #1954)</td>
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<tr>
<td></td>
<td>• Triple-DES (Cert. #1420)</td>
</tr>
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<td></td>
<td>• DRBG (Cert. #281)</td>
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<td></td>
<td>• CVL (Cert. #44)</td>
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<td></td>
<td>• RNG (Cert #1132)</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Other Algorithms:</th>
</tr>
</thead>
<tbody>
<tr>
<td>• RSA (key wrapping)</td>
</tr>
<tr>
<td>• Key establishment methodology provides between 112 and 256 bits of encryption strength</td>
</tr>
<tr>
<td>• Non-compliant less than 112 bits of encryption strength</td>
</tr>
<tr>
<td>• EC Diffe-Hellman key agreement</td>
</tr>
<tr>
<td>• Key establishment methodology provides between 112 and 256 bits of encryption strength</td>
</tr>
<tr>
<td>• Non-compliant less than 112 bits of encryption strength</td>
</tr>
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#### SPECIFICATIONS

**X29 Appliance**

- **Capture Ports**
  - Four 10/100/1000BASE-T
  - A total of two ports can be used in passive mode

- **Management Ports**
  - One 10/100/1000BASE-T out-of-band management port
  - One 10/100/1000 BASE-T out-of-band support port
  - One RJ-45 serial console port

- **Storage Capacity**
  - 1 TB hard disk drive

- **Input Voltage**
  - 100-240 VAC, 50-60 Hz

- **Power**
  - 5 watts

- **Current**
  - 5 A

- **Dimensions**
  - 1.74 in. (44.19 mm) H x 9.09 in. (230.88 mm) W x 7.4 in. (196.59 mm) D

- **Weight**
  - 5.18 lbs (2.3 kg)

**X80 Appliance**

- **Capture Ports**
  - Two 10/100/1000BASE-T
  - Two 10 Gigabit Ethernet SFP+

- **Management Ports**
  - Two 10/100/1000BASE-T
  - One VGA video port
  - Two USB 3.0 ports
  - One DB-9 serial port

- **Storage Capacity**
  - 6 TB hard disk drive
  - Two redundant 960-GB SSD drives for Vectra system and databases

- **Input Voltage**
  - Dual modular power supplies; auto-sensing 100-240 VAC, 50-60 Hz

- **Power**
  - 550 watts

- **Current**
  - 7.5 A at 240 VAC

- **Dimensions**
  - 1.75 in. (45 mm) H x 17 in. (432 mm) W x 26 in. (660 mm) D

- **Weight**
  - 27 lbs (12 kg)

**S2 Sensor**

- **Capture Ports**
  - Four 10/100/1000BASE-T
  - A total of two ports can be used in passive mode

- **Management Ports**
  - One 10/100/1000BASE-T out-of-band management port
  - One 10/100/1000 BASE-T out-of-band support port
  - One RJ-45 serial console port

- **Storage Capacity**
  - 1 TB hard disk drive

- **Input Voltage**
  - 100-240 VAC, 50-60 Hz

- **Power**
  - 60 watts

- **Current**
  - 7.4 A at 120 VAC, 3.7 A at 240 VAC

- **Dimensions**
  - 1.74 in. (44.19 mm) H x 9.09 in. (230.88 mm) W x 7.4 in. (196.59 mm) D

- **Weight**
  - 26 lbs (11.8 kg)

**Environment**

- **Operating Temperature:**
  - 32° to 104° F (0° to 40° C)
  - Non-Operating Temperature:
  - -4° to 158° F (-20° to 70° C)

- **Operating Temperature:**
  - 32° to 95° F (0° to 35° C)
  - Non-operating temperature:
  - 32° to 122° F (0° to 50° C)

- **Operating Temperature:**
  - 50° to 95° F (10° to 35° C)
  - Non-Operating Temperature:
  - -40° to 158° F (-40° to 70° C)

#### VIRTUAL SENSORS

- **Throughput**
  - 400 Mbps
  - 1 Gbps
  - 2 Gbps
  - 5 Gbps

- **Requirements**
  - VMware ESXi 5.0 or later
  - Intel or AMD CPUs supporting SSE3 and SSE4
  - Two network interfaces

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