



Cognito platform specifications

The Cognito™ automated threat detection and response platform from Vectra® provides full visibility into cyber attack behaviors from cloud and data center workloads to user and IoT devices. Regardless of size or geographic spread, Cognito provides consistent threat detection coverage with no blind spots, leaving attackers with nowhere to hide.

Cognito has a brain and multiple sensors that provide input to the brain. The brain, which runs on the X-series appliance, receives input from S-series sensors.

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.

Because Cognito uses artificial intelligence, it automatically analyzes, triages, correlates and prioritizes threats across an enterprise in real-time, reducing the security-analyst workload by 29x.

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

FIPS 140-2 Validated	FIPS-Approved Algorithms: <ul style="list-style-type: none"> • AES (Cert. #2273) • HMAC (Cert. #1391) • DSA (Cert. #709); ECDSA (Cert. #368) • RSA (Cert. #1166) • SHS (Cert. #1954) • Triple-DES (Cert. #1420) • DRBG (Cert. #281) • CVL (Cert. #44) • RNG (Cert #1132) 	Other Algorithms: <ul style="list-style-type: none"> • RSA (key wrapping) • Key establishment methodology provides between 112 and 256 bits of encryption strength • Non-compliant less than 112 bits of encryption strength • EC Diffie-Hellman key agreement • Key establishment methodology provides between 112 and 256 bits of encryption strength • Non-compliant less than 112 bits of encryption strength
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SPECIFICATIONS

	S2 Sensor	X24 Appliance	X29 Appliance	X80 Appliance
Capture Ports	<ul style="list-style-type: none"> • Four 10/100/1000BASE-T • A total of two ports can be used in passive mode 	<ul style="list-style-type: none"> • Four 10/100/1000BASE-T • Two 10 Gigabit Ethernet SFP+ 	<ul style="list-style-type: none"> • Two 10/100/1000BASE-T • Two 10 Gigabit Ethernet SFP+ 	<ul style="list-style-type: none"> • Four 10 Gigabit Ethernet SFP+
Management Ports	<ul style="list-style-type: none"> • 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 	<ul style="list-style-type: none"> • Two 10/100/1000BASE-T ports • One VGA video port • Two USB 2.0 ports • One DB-9 serial port 	<ul style="list-style-type: none"> • Two 10/100/1000BASE-T • One VGA video port • Two USB 3.0 ports • One DB-9 serial port 	<ul style="list-style-type: none"> • One 1000BASE-T port • One 10 Gigabit Ethernet SFP+ • One VGA video port • Two USB 2.0 ports • One DB-9 serial port
Storage Capacity	<ul style="list-style-type: none"> • 1 TB hard disk drive 	Raw Storage: <ul style="list-style-type: none"> • 4 TB hard disk drive Configured Storage: <ul style="list-style-type: none"> • Four redundant 1 TB hard disk drives for operating system and striping for data 	Raw Storage: <ul style="list-style-type: none"> • 6 TB hard disk drive Configured Storage: <ul style="list-style-type: none"> • Four 1.2-TB drives for striping data • Two redundant 480-GB SSD drive for databases • One 240-GB SSD drive for Vectra system 	Raw Storage: <ul style="list-style-type: none"> • 12 TB hard disk drive Configured Storage: <ul style="list-style-type: none"> • Two redundant 1 TB SSD drives for operating system • Eight 1 TB hard disk drives as disk striping for data
Input Voltage	<ul style="list-style-type: none"> • 100-240 VAC, 50-60 Hz 	<ul style="list-style-type: none"> • Auto-sensing 100-240 VAC, 50-60 Hz 	<ul style="list-style-type: none"> • Dual modular power supplies; auto-sensing 100-240 VAC, 50-60 Hz 	<ul style="list-style-type: none"> • Dual modular power supplies; auto-sensing 100-240 VAC, 50-60 Hz
Power	<ul style="list-style-type: none"> • 60 watts 	<ul style="list-style-type: none"> • 1800 watts 	<ul style="list-style-type: none"> • 685 watts 	<ul style="list-style-type: none"> • 1800 watts
Current	<ul style="list-style-type: none"> • 5 A 	<ul style="list-style-type: none"> • 7.5 A -18 A 	<ul style="list-style-type: none"> • 5.7 A at 120 VAC, 2.85 A at 240 VAC 	<ul style="list-style-type: none"> • 7.5 A -18 A
Dimensions	<ul style="list-style-type: none"> • 1.74 in. (44.19 mm) H x 9.09 in. (230.88 mm) W x 7.74 in. (196.59 mm) D 	<ul style="list-style-type: none"> • 1.7 in. (43 mm) H x 17.2 in. (437 mm) W x 27.82 in. (707 mm) D 	<ul style="list-style-type: none"> • 1.75 in. (45 mm) H x 17 in. (432 mm) W x 26 in. (660 mm) D 	<ul style="list-style-type: none"> • 1.7 in. (43 mm) H x 17.2 in. (437 mm) W x 27.82 in. (707 mm) D
Weight	<ul style="list-style-type: none"> • 5.18 lbs (2.3 kg) 	<ul style="list-style-type: none"> • 26 lbs (11.8 kg) 	<ul style="list-style-type: none"> • 27 lbs (12 kg) 	<ul style="list-style-type: none"> • 26 lbs (11.8 kg)
Environment	Operating Temperature: <ul style="list-style-type: none"> • 32° to 104° F (0° to 40° C) Non-Operating Temperature: <ul style="list-style-type: none"> • -4° to 158° F (-20° to 70° C) 	Operating Temperature: <ul style="list-style-type: none"> • 50° to 95° F (10° to 35° C) Non-Operating Temperature: <ul style="list-style-type: none"> • -40° to 158° F (-40° to 70° C) 	Operating temperature: <ul style="list-style-type: none"> • 32° to 95° F (0° to 35° C) Non-operating temperature: <ul style="list-style-type: none"> • 32° to 122° F (0° to 50° C) 	Operating Temperature: <ul style="list-style-type: none"> • 50° to 95° F (10° to 35° C) Non-Operating Temperature: <ul style="list-style-type: none"> • -40° to 158° F (-40° to 70° C)

VIRTUAL SENSORS

Throughput	<ul style="list-style-type: none"> • 400 Mbps • 1 Gbps • 2 Gbps • 5 Gbps 	<ul style="list-style-type: none"> • 2 virtual CPU cores • 4 virtual CPU cores • 8 virtual CPU cores • 16 virtual CPU cores 	<ul style="list-style-type: none"> • 8 GB RAM • 8 GB RAM • 16 GB RAM • 64 GB RAM 	<ul style="list-style-type: none"> • 100 GB disk space • 150 GB disk space • 150 GB disk space • 600 GB disk space
Requirements	<ul style="list-style-type: none"> • VMware ESXi 5.0 or later • Intel or AMD CPUs supporting SSE3 and SSE4 • Two network interfaces 			



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