

LINKSHADOW® INTELLIGENT NDR



OVERVIEW

LINKSHADOW, INTELLIGENT NDR.

LinkShadow®, The Intelligent NDR Platform, was developed to provide unparalleled monitoring, detection, and response to the most sophisticated cyber threats and incidents. LinkShadow® empowers organizations to defend against advanced cyber-attacks, zero-day malware, and ransomware through a comprehensive analysis of the network, systems, and applications traffic and utilizes the various organizations' security solutions through out-of-the-box connectors that ensure responding to different incidents over these solutions.

HIGHLIGHTS

- Get a global view of the latest attacks on your organization based on threat feeds from existing security assets with AttackScape Viewer
- Geo-intelligence based topological view helps you monitor suspicious inbound/outbound traffic with TrafficSense and Attack Visualizer
- Detect anomalies through behavioral analytics performed on correlated logs, packet and 3rd party tool detection using advanced machine learning algorithms with ThreatScore Quadrant
- Visual trend analytics on user behavior including authentication patterns, application usage habits, etc. with Identity Intelligence
- Automatically discover all devices across your entire network, providing insight into device type and OS, plus validation of whether devices are managed or unmanaged, and whether endpoint security is installed with Asset AutoDiscovery
- Single-pane-of-glass view on the effectiveness of your existing security systems through log correlation: firewall, sandbox, IPS and endpoint security with BlockCount Ratio
- Agentless application and endpoint behavioral analytics enabling deep learning about your users with User Investigator
- Get a detailed view of an anomalous entity in your network and the connections it makes with other entities in the network with Entity Inspector
- Automated Response on anomaly triggered using Response Module

NDR Specifications

	LS 500	LS 1000	LS 3000	LS 6000	LS 10000	LS 20000	LS 40000	LS 100000
Network Throughput	Upto 500 Mbps	Upto 1 Gbps	Upto 3 Gbps	Upto 6 Gbps	Upto 10 Gbps	Upto 20 Gbps	Upto 40 Gbps	Upto 100 Gbps
Network Interface	4 x 1 GbE Copper 2 x 1 GbE Mgmt Port	4 x 1 GbE Copper 2 x 10 GbE Fiber(optional) 2 x 1 GbE Mgmt Port	2 x 10 GbE Copper 2 x 10/25 GbE Fiber 2 x 1 GbE Mgmt Port	2 x 10 GbE Copper 2 x 10/25 GbE Fiber 2 x 1 GbE Mgmt Port	2 x 10 GbE Copper 2 x 10/25 GbE Fiber 2 x 1 GbE Mgmt Port	2 x 10 GbE Copper 2 x 10/25 GbE Fiber 2 x 1 GbE Mgmt Port	2 x 100 GbE Fiber 2 x 10/25 GbE Fiber 2 x 1 GbE Mgmt Port	2 x 100 GbE Fiber 2 x 10/25 GbE Fiber 2 x 1 GbE Mgmt Port
Form Factor	1U	1U	1U	1U	1U	1U	1U	1U
Power Supplies	700 W, 200—240 VAC, hotswap redundant		1100W, 100—240 VAC, hot swap with full redundant					
Fans	Up to 4 fans		Up to 4 sets (dual fan module) hot plug fans					
Dimensions	<ul style="list-style-type: none">Height – 42.8 mm (1.68 inches)Width – 482.0 mm (18.97 inches)Depth – 585.3 mm (23.04 inches) without bezelDepth — 598.9 mm (23.57 inches) with bezel		<ul style="list-style-type: none">Height – 42.8 mm (1.68 inches)Width – 482 mm (18.97 inches)Depth – 822.88 mm (32.39 inches) with bezelDepth – 809.04 mm (31.85 inches) without bezel					
Bezel	Security bezel or Optional Filter bezel		Optional LCD bezel or security bezell					
Heat Dissipation	2625 BTU/hr		4100 BTU/hr					
Cooling Options	Air Cooling							
*GPU (optional)	NA			Peak FP32: 4.5 TFLOPS, Peak FP16: 18 TFLOPS, 16 GB Memory, 200 GB/s Bandwidth				

*GPU is a prerequisite for enabling the **ShadowGPT functionality**.

NDR Sensor Appliance Specifications

Feature	Technical Specifications
Appliance	LS 500-S
Network Interface	2x1 GbE Mgmt Interface 4x1 GbE Copper
Network Throughput	Upto 500 Mbps
Power Supplies	700 W Titanium 240 V DC, cabled
Form Factor	1U Rack Server
Fans	Up to four cabled fans
Cooling Options	Air Cooling
Dimension	<ul style="list-style-type: none"> • Height: 42.8 mm (1.68 inches) • Width: 482 mm (18.97 inches) • Depth: - 598.64 mm (23.56 inches) with bezel - 585 mm (23.03 inches) without bezel
Bezel	Optional bezel or security bezel
Heat Dissipation	2625 BTU/hr

LinkShadow VM Appliance Resource Requirements and Performance

Resource Type				
Appliance	LSSR500-V	LS 1000-V	LS 3000-V	LS 5000-V
Network Throughput	Upto 500 Mbps	Upto 1 Gbps	Upto 3 Gbps	Upto 5 Gbps
Drive	Min 500 GB - Data Min 500 GB - PCAP	Min 1 TB - Data Min 1 TB - PCAP	Min 3 TB - Data Min 3 TB - PCAP	Min 5 TB - Data Min 5 TB - PCAP
Interface ⁽¹⁾	1 Management Port ⁽²⁾ 1 Monitoring Port ⁽³⁾	1 Management Port ⁽²⁾ 1 Monitoring Port ⁽³⁾	1 Management Port ⁽²⁾ 1 Monitoring Port ⁽³⁾	1 Management Port ⁽²⁾ 1 Monitoring Port ⁽³⁾
CPU ⁽⁴⁾	12 vCPU, Intel Broadwell and above	24 vCPU, Intel Broadwell and above	40 vCPU, Intel Broadwell and above	40 vCPU, Intel Broadwell and above
Memory	24 GB minimum Required	64 GB minimum Required	128 GB minimum Required	192 GB minimum Required
Hypervisors	VMware ESXi 6.7 or Higher, and Hyper-V			
Supported Cloud Platforms	AWS, Azure, GCP, OCI			
VMware Virtual Switch Type	VMware Virtual Standard Switch (VSS) or VMware Distributed Switch (VDS a.k.a. dvSwitch)			

(1) Interface – Linkshadow uses VMXNET3 driver for capture and management ports.

(2) Management Port – One network port is required for management. The interface must be accessible on port 443.

(3) Monitoring Port – The throughput of network port is recommended based on the LinkShadow Model (Total Throughput) for the physical mirror port. The physical port mirror interface must be connected to the port mirror destination on the switch.

(4) CPU requirements- CPU must be server grade CPU, and vCPU should support instruction set AVX512. (This requires Hypervisor host to run on Intel Broadwell processor or above).

NDR Virtual Sensor Appliance Specifications

Resource Type	
Appliance	LSSR500-V-S
Network Throughput	Upto 500 Mbps
Drive	Min 500 GB - Data
Interface ⁽¹⁾	1 Management Port ⁽²⁾ 1 Monitoring Port ⁽³⁾
CPU ⁽⁴⁾	12 vCPU, Intel Broadwell and above
Memory	24 GB minimum required
Hypervisors	VMware ESXi 6.7 or Higher, and Hyper-V
Supported Cloud Platforms	AWS, Azure, GCP, OCI
VMware Virtual Switch Type	VMware Virtual Standard Switch (VSS) or VMware Distributed Switch (VDS a.k.a. dvSwitch)

Shadow 360

Obtain in-depth view of all activities before and after an anomaly



BlockCount Ratio

Validate the effectiveness of existing security solutions and their ROI



AI-Powered Engine

Manages end-to-end from data collection to detection and visualization



Management Dashboard

Overview of organizations' security posture providing high-level security KPIs & KRIs to CXOs



AML Anomaly Detection

Detect anomalies through advanced machine learning algorithms applied on enriched network & user data



LiveShadow

Compilation of all critical security findings in real-time



Asset AutoDiscovery

Automatically discover & track assets across the entire network and monitor activity trends



ThreatScore Quadrant

Learn, score and prioritize assets & users for action, based on risk scores



Identity Intelligence

Get visual trend analytics on user behavior including authentication patterns, application usage habits etc.

