

# Dragos Platform Deployment Models & Technical Specifications

## Overview

The Dragos Platform deploys flexibly across on-premises, hybrid, and virtual environments to deliver safe, OT-aware visibility, monitoring, and detection and response. Whether collecting network telemetry passively or performing active data collection, Dragos deployment options scale to meet the architecture, risk profile, and operational constraints of each industrial organization.

## Deployment Overview: Multi-Source Data Collection

The Dragos Platform combines passive network monitoring and safe active collection to deliver comprehensive, OT-aware visibility across industrial environments. It also supports data file imports and API-based integrations to incorporate information from engineering systems and third-party tools—ensuring a unified, OT-aware view of assets, communications, and network telemetry.

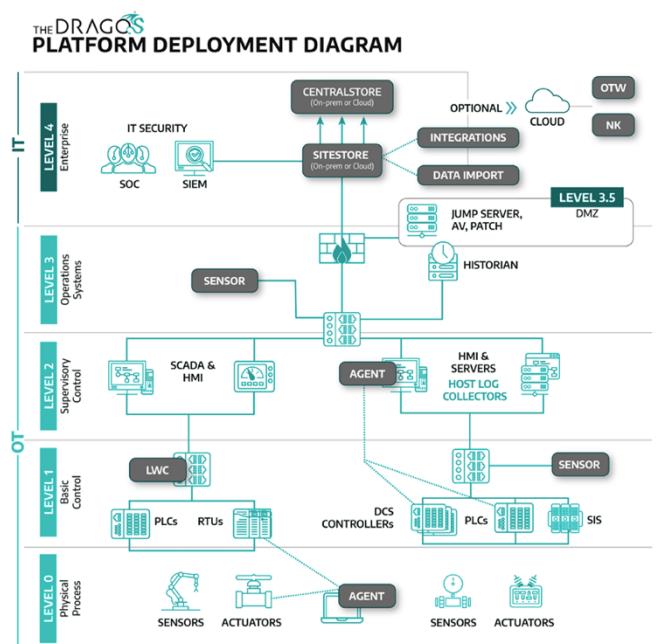
**Passive Monitoring:** Dragos Sensors (physical and virtual sensors) observe OT network communications non-intrusively, using deep packet inspection (DPI) to decode over 600 industrial protocols.

**Active Collection:** Lightweight, purpose-built software executable deployed directly on Windows-based devices for active data collection. Discovers isolated or low-traffic assets, enriches asset inventories, and software and OS vulnerabilities matching.

**Data Import:** The Dragos Platform enhances asset inventories by importing project files and configuration data from engineering and control systems, providing deeper context for assets, relationships, and configurations.

**Integrations:** API-based integrations enable continuous data exchange with third-party monitoring, security, and IT systems. These connections enrich visibility, support cross-domain workflows, and allow the Dragos Platform to operate as part of a unified enterprise security ecosystem.

**Data Aggregation:** Dragos SiteStores aggregate asset, vulnerability, and threat data across connected Sensors, providing historical context and centralized visibility across OT environments to support detection, investigation, and response. CentralStore (optional component) offers central management of SiteStores enabling a central location for multi-site aggregation, central dashboards, searching, and reporting.



Dragos Platform appliances are designed to accommodate a wide variety of industrial environment scenarios. For optimal architecture and sizing, please consult with your account team or contact: [sales@dragos.com](mailto:sales@dragos.com).

## Sensors – Hardware



SPECIFICATION	NS-25-DR	NS-100-SEL	NS-220-E	NS-520-E
Rugged / Industrial Rating	Yes	Yes	No	No
Estimated Max Monitored Assets	1,000	1,000	10,000	10,000
Max Concurrent Flow Processing	1,250	5,000	5,000	20,000
Max Sustained Monitoring Bandwidth	25 Mbps	250 Mbps	250 Mbps	500 Mbps
Monitoring Interfaces	RJ45 (4) SFP (2)	RJ45 (1)	10G SFP+ (4) 1G RJ45 (8)	10G SFP+ (4) 1G RJ45 (8)
Management Interfaces	RJ45 (1)	RJ45 (1)	1 GbE (2), only 1 port enabled	1 GbE (2), only 1 port enabled
Expansion Monitoring Interfaces	None	Optional: Up to 8 RJ45 Optional: Up to 8 SFP	RJ45 (8) / SFP (4)	RJ45 (8) / SFP (4)
Local Console	Serial (DB9) HDMI / 2x USB-A 3.0	2x DVI-D; 1x DP Rear: 4x USB-A 3.1 Front: 2x USB-A 3.1	VGA 2x USB-A 2.0 RJ45 console	VGA 2x USB-A 2.0 RJ45 console
Remote Management	No	No	IPMI	IPMI
Form Factor	DIN Rail; Wallmount	3U Rackmount	Tabletop / 1U Rackmount	Tabletop / 1U Rackmount
Fanless	Yes	Yes	No	No
Power Supply	27.42 W (full load) 1x 6-pin terminal block for 2 sets of 20~54VDC direct power input. Optional External AC/DC Power Adapter with connector	Single power supply (default) or dual (optional) 48 VDC 120~240 VAC (High Voltage) 125~250 VDC (Euroblock)	150W (100~240 VAC Ext. Power Adapter to DC Input) Optional Second External Power Adapter to second DC Input	150W (100~240 VAC Ext. Power Adapter to DC Input) Optional Second External Power Adapter to second DC Input
Max Power Consumption	0.68A / 27.42W	1.03A / 240W	58.6 W	66.3 W
Max BTU/hr	94 BTU/hr	818 BTU/hr	200 BTU/hr	262 BTU/hr
Operating Temperature Range	-40°C ~ 70°C	-40°C ~ 60°C	0°C ~ 40°C	0°C ~ 40°C
Storage Temperature Range	-40°C ~ 85°C	-40°C ~ 85°C	-40°C ~ 70°C	-40°C ~ 70°C
HxDxW (in/mm)	6.30 x 6.54 x 2.11 in 166 x 160 x 53.5 mm	5.22 x 11.49 x 18.31 in 132.6 x 291.8 x 465.1 mm	1.7 x 9.5 x 13.3 in 43.7 x 241.1 x 339.6 mm	1.7 x 9.5 x 13.3 in 43.7 x 241.1 x 339.6 mm
Weight	3.52 lb / 1.6 kg	20 lb / 9.1 kg	9.9 lb / 4.5 kg	9.9 lb / 4.5 kg
Certifications	CE, FCC Class A, UL, RoHS, IEC 61850-3, IEC 1613	CE, FCC Class A, UL, RoHS, RCM CB	CB, CE, FCC, UL	CB, CE, FCC, UL
TAA Compliant	Yes	Yes	Yes	Yes
Warranty Period	3 years	3 years*	3 years	3 years

\* Dragos provides 3-year warranty; SEL provides warranty for up to 10 years



SPECIFICATION	NS-1000-E	NS-1020-E	NS-2050-E
<b>Rugged / Industrial Rating</b>	No	No	No
<b>Estimated Max Monitored Assets</b>	10,000	10,000	1000,000
<b>Max Concurrent Flow Processing</b>	30,000	30,000	300,000
<b>Max Sustained Monitoring Bandwidth</b>	1 Gbps	1 Gbps	10 Gbps
<b>Monitoring Interfaces</b>	1 GbE (4)	1 GbE RJ45 (8) 10 GbE SFP+ (4)	10GbE RJ45 (2) 10GbE SFP+ (2)
<b>Management Interfaces</b>	1 (specified, not changeable)	1 GbE (2), only 1 port enabled	1 GbE (2), only 1 port enabled
<b>Local Console</b>	VGA / 2x USB-A 3.0	VGA / 2x USB-A 3.0	VGA / 2x USB-A 3.0
<b>Remote Management</b>	IPMI	IPMI	IPMI
<b>Form Factor</b>	1U Rackmount	1U Rackmount	2U Rackmount
<b>Fanless</b>	No	No	No
<b>Power Supply</b>	Dual 550W (100 ~ 240 VAC) Hot Plug Redundant	Dual 300W (100 ~ 240 VAC) Hot Plug Redundant	Dual 1400W AC/240 Hot Plug Redundant (1+1)
<b>Max Power Consumption</b>	300 W	219 W	742 W
<b>Max BTU/hr</b>	1023 BTU/hr	747 BTU/hr	2531.8 BTU/hr
<b>Operating Temperature Range</b>	10°C ~ 35°C	0°C ~ 40°C	10°C ~ 35°C
<b>Storage Temperature Range</b>	-30°C ~ 60°C	-20°C ~ 70°C	-40°C ~ 65°C
<b>HxDxW (in/mm)</b>	1.68 x 28.13 x 17.08 in 42.8 x 714.62 x 434 mm	17.2 x 1.7 x 16.5 in 438 x 44 x 420 mm	3.41 x 30.39 x 18.97 in 86.8 x 482.0 x 772.13 mm
<b>Weight</b>	38.9 lb / 17.64 kg	18.14 lb / 8.23 kg	70.10 lbs / 31.8 kg
<b>Certifications</b>	CCE, FCC Class A, UL, RoHS	CE, FCC Class A, UL, RoHS	BIS (India), CE (EU), CCC (CN), KCC (Korea), NOM (MX), NRCS (South Africa), RCM (Australia), FCC Part 15 (US)
<b>TAA Compliant</b>	Yes	Yes	Yes
<b>Warranty Period</b>	3 years	3 years	3 years

## Sensors – Virtual

SPECIFICATION	NS-25-VM	NS-100-VM	NS-250-VM	NS-500-VM	NS-1000-VM
Estimated Max Monitored Assets	250	1,000	5,000	7,500	10,000
Max Concurrent Flow Processing	1,250	5,000	7,500	10,000	15,000
Max Sustained Monitoring Bandwidth*	25 Mbps	100 Mbps	250 Mbps	500 Mbps	1 Gbps
Monitoring Interfaces	4 (Virtual)	4 (Virtual)	4 (Virtual)	4 (Virtual)	4 (Virtual)
CPU (vCores**)	4	5	6	8	12
Memory (RAM)	8 GB	10 GB	14 GB	18 GB	22 GB
Disk	200 GB 7.5k Read IOPS 3k Write IOPS	400 GB+ 10k Read IOPS 5k Write IOPS	400GB+ 20k Read IOPS 5k Write IOPS	1 TB 30k Read IOPS 10k Write IOPS	1 TB 50k Read IOPS 15k Write IOPS
Host Environment	VMware ESXi 6.7 or newer; VMware vSphere 6.7 or newer; Proxmox Virtual Environment (VE) 8.2 or newer; KVM/QEMU on Linux kernel 2.6.20 or newer; Microsoft Hyper-V 10.0.20348.1 running on Windows Server 2022 Standard or newer; Nutanix (6.8.1 or newer)				

\* Measured with all Platform modules enabled, actual results may vary depending on network traffic characteristics.

\*\* vCPU performance should equate to dedicated threads of a Xeon E5-2680 v4 or better.

## Dragos Agent – Active Collection

The Dragos Platform enhances OT visibility with safe Active Collection for environments where passive monitoring alone may not suffice. Deployed on Windows-based systems, the Dragos Agent safely and selectively queries connected assets to collect detailed information, such as operating system details, firmware versions, patch status, and module data, delivering deeper asset insight and broader visibility across industrial environments.

SPECIFICATION	DRAGOS AGENT
CPU	1 CPU (x64/arm64)
Memory	512 MB
Storage	512 MB
OS Support	Windows Server All LTSC versions Windows 7 Service Pack 2 and above Windows 10 Windows 11

## SiteStore – Hardware



SPECIFICATION	STS-550-E
Capacity	Up to 20 Gbps of traffic monitored by connected Dragos Sensors, 500Mbps ingestion rate for embedded sensor
Estimated Max Monitored Assets	500,000
Management Interfaces	1 (specified, not changeable)
Local Console	VGA Connector for video; USB-A Ports for keyboard, mouse Front: 1x USB-A 2.0; Back: 2x USB-A 3.0
Remote Management	IPMI
Form Factor	1U Rackmount
Field Replaceable Parts	Power Supply (2), Disk (6)
Power Supply	Dual 1100W (100 - 240 VAC), Hot Plug Redundant
Avg/Max Power Consumption	350 W / 1000 W
Avg/Max BTU/hr	1200 / 3500 BTU/hr
Operating Temperature Range	10°C ~ 35°C
Storage Temperature Range	-40°C ~ 65°C
HxDxW (in/mm)	1.68 x 17.08 x 27.26 in, 42.8 x 434 x 692.2 mm
Weight	30.2 lb / 13.7 kg
Certifications	CE, FCC Class A, UL, RoHS TAA Compliant
Warranty Period	5 years

## SiteStore – Virtual

SPECIFICATION	STS-50-VM	STS-200-VM	STS-500-VM
Max Sustained Monitoring Bandwidth	2 Gbps	6 Gbps	10 Gbps
Estimated Max Monitored Assets	5,000	100,000	500,000
Max Sensor Ingest Bandwidth	500 Mbps		
CPU (vCores)	16	24	48
Memory (RAM)	48 GB 64 GB with embedded sensor	96 GB 112 GB with embedded sensor	192 GB -
Disk	500 GB 50k Read IOPS 20k Write IOPS	3 TB 50k Read IOPS 20k Write IOPS	8 TB 100k Read IOPS 40k Write IOPS
NHost Environment	VMware ESXi 6.7 or newer; VMware vSphere 6.7 or newer; Proxmox Virtual Environment (VE) 8.2 or newer; KVM/QEMU on Linux kernel 2.6.20 or newer; Microsoft Hyper-V 10.0.20348.1 running on Windows Server 2022 Standard or newer; Nutanix (6.8.1 or Newer)		

## SiteStore – Cloud

### SPECIFICATION

Max Sustained Monitoring Bandwidth	Up to 8 Gbps
Estimated Max Monitored Assets	Up to 500,000 Gbps
Host Environment	Dragos Cloud (SaaS)



## CentralStore – Hardware

SPECIFICATION	CS-550-E
Capacity	Up to 90 Gbps aggregated monitored bandwidth
Max Connected SiteStores	Up to 50
Management Interfaces	1 (specified, not changeable)
Local Console	VGA Connector for video; USB-A Ports for keyboard, mouse Front: 1x USB-A 2.0; Back: 2x USB-A 3.0
Remote Management	IPMI
Form Factor	1U Rackmount
Field Replaceable Parts	Power Supply (2), Disk (6)
Power Supply	Dual 1100W (100 - 240 VAC), Hot Plug Redundant
Avg/Max Power Consumption	350 W / 1000 W
Avg/Max BTU/hr	1200 / 3500 BTU/hr
Operating Temperature Range	10°C ~ 35°C
Storage Temperature Range	-40°C ~ 65°C
HxDxW (in/mm)	1.68 x 17.08 x 27.26 in, 42.8 x 434 x 692.2 mm
Weight	30.2 lb / 13.7 kg
Certifications	CE, FCC Class A, UL, RoHS TAA Compliant
Warranty Period	5 years

## CentralStore – Cloud

SPECIFICATION	CS-50-DC
Max Connected SiteStores	Up to 50
Host Environment	Dragos Cloud (SaaS)

## CentralStore – Virtual

SPECIFICATION	CS-25-VM	CS-50-VM
Max Sustained Monitoring Bandwidth	50 Gbps	100 Gbps
Max Connected SiteStores	25	50
CPU (vCores**)	24	48
Memory (RAM)	96 GB	192 GB
Disk	10 TB 20k Read IOPS 40k Write IOPS	10 TB 50k Read IOPS 100k Write IOPS
Host Environment	VMware ESXi 6.7 or newer; VMware vSphere 6.7 or newer; Proxmox Virtual Environment (VE) 8.2 or newer; KVM/QEMU on Linux kernel 2.6.20 or newer; Microsoft Hyper-V 10.0.20348.1 running on Windows Server 2022 Standard or newer; Nutanix (6.8.1 or Newer)	

\*\* vCPU performance should equate to dedicated threads of a Xeon E5-2680 v4 or better.

## Commercial Off-the-Shelf (COTS)

**Note:** For customers who prefer leveraging their existing OEM hardware enterprise agreements, Dragos offers COTS appliance options. The offerings allow customers to utilize third-party hardware with their Dragos Platform software subscription. The following hardware is validated by Dragos, with more to be added. Specific Hardware Configurations are required for Dragos Platform Support. Please consult with your account team or contact: [sales@dragos.com](mailto:sales@dragos.com)

### Sensor – COTS

SPECIFICATION	SEL-3350	SEL-3355	DELL R660XS
<b>Max Sustained Monitoring Bandwidth</b>	25 Mbps	100 Mbps	1 Gbps
<b>Form Factor</b>	1U Rackmount	3U Rackmount	1U Rackmount
<b>Monitoring Interfaces</b>	1 GbE RJ45 (4)	1 GbE RJ45 (1 built-in) Optional: Up to 8 RJ45 Optional: Up to 8 SFP (100BASE-FX SFP transceivers supported)	1 GbE RJ45 (4)
<b>Power Supply</b>	48 / 88 VDC (dual)	24 VDC (dual)	100–240 VAC auto-ranging
<b>Operating Temperature Range</b>	–40 °C to 85 °C	–40 °C to 70 °C	10 °C to 35 °C
<b>Certifications</b>	CE, FCC, UL	CE, FCC, UL	CE, FCC, UL, RoHS

### SiteStore – COTS

SPECIFICATION	DELL R6615	HPE DL325	HPE DL145
<b>Max Sustained Monitoring Bandwidth</b>	20 Gbps	20 Gbps	2 Gbps
<b>Form Factor</b>	1U Rackmount	1U Rackmount	2U Rackmount
<b>Monitoring Interfaces</b>	None; not applicable to a SiteStore		
<b>Power Supply</b>	Dual 1100 W Hot Plug (100–240 VAC)	Dual 1100 W Redundant PSU	Dual 1100 W Redundant PSU
<b>Operating Temperature Range</b>	10 °C to 35 °C	10 °C to 35 °C	10 °C to 35 °C
<b>Certifications</b>	CE, FCC, UL	CE, FCC, UL	CE, FCC, UL

#### About Dragos

Dragos safeguards civilization from cyber threats targeting industrial infrastructure. The Dragos Platform delivers OT-native visibility, detection, and response across industrial control system environments, supported by the industry's largest team of OT cybersecurity experts and global threat-intelligence operations.