

Building Resilience with IT/OT Security

2025



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Agenda

1. Market Trends & Best Practices
2. How Splunk Adds Value
3. Customer Stories



What's on the Industry's Mind?



Why is NIS2* so Important for OT Security?

- EU-wide legislation to boost the overall level of cybersecurity
- **Start: 18 October 2024**
- Strict incidence reporting mandate (24h)
- Personal liability of C-level
- Huge penalties up to €10M



Need for unified visibility across IT and OT environments

*NIS2 Directive: Network and Information Security Directive

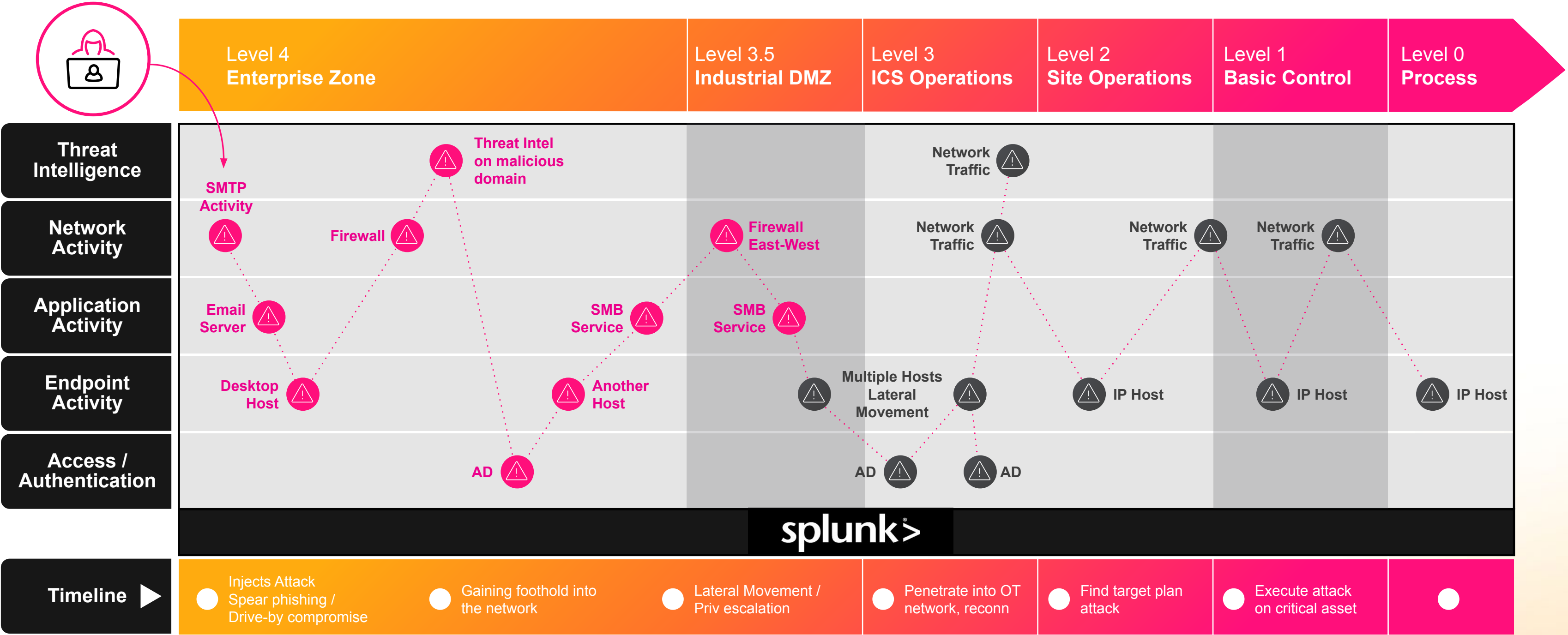
Best Practices

IT / OT SOC: VISIBILITY ACROSS IT AND OT

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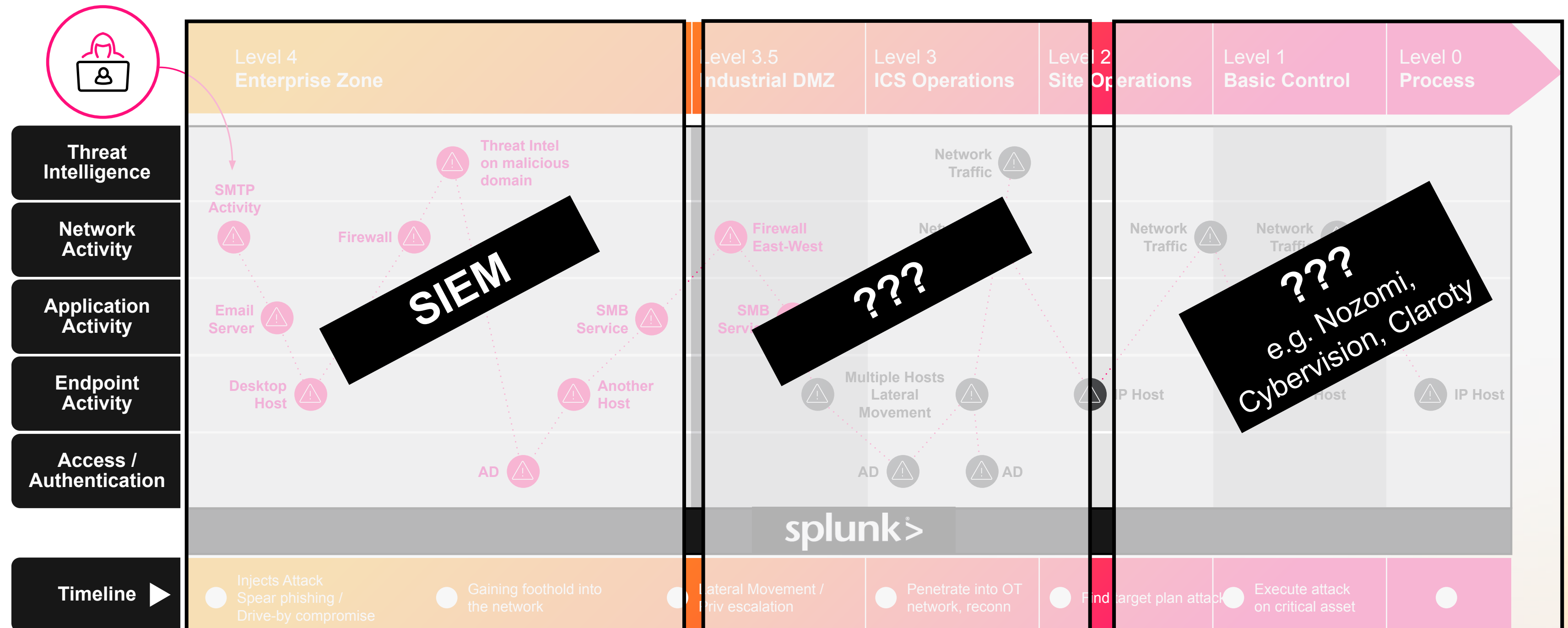
During a Cyberattack Visibility Across Zones is Essential



140 days, median days before detection

Imagine...

Where is your blind spot? 100% centralized visibility or working in silos?



Do You Know Whether You Have Been Hacked?

Worse than being hacked is not knowing you have been hacked

Where is your weakest spot in your processes and production?
You know best!

Known Knowns <i>Things we are aware of and understand.</i>	Known Unknowns <i>Things we are aware of but don't understand.</i>
Unknown Knowns <i>Things we understand but are not aware of.</i>	Unknown Unknowns <i>Things we are neither aware of nor understand.</i>



Highest risk to your environment

Best Practices

FALSE ALERTS

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Fighting False Alerts the Smart Way

- False alerts are a key challenge in OT environments:
2,000 - 10,000 false alerts / day
- Noisy SOC leads to burnout and missing of key notables
- Solution: **Risk Based Alerting**

How Splunk Adds Value

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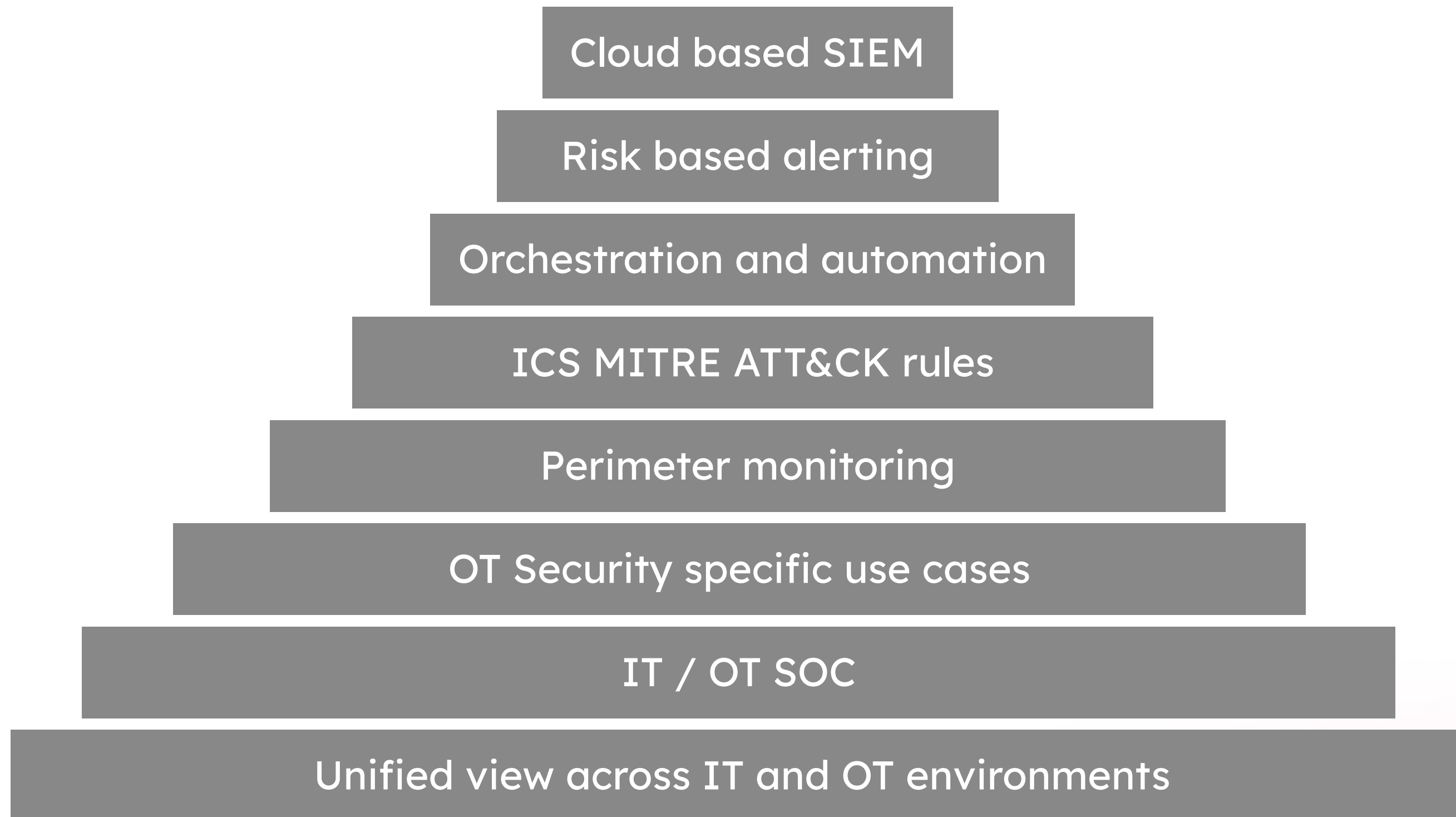


Earthquake-Proof Towers

They bend, but don't break.

Japan is home to some of the most resilient
buildings in the world

Building Resilience with OT Security



... it isn't just about dealing with the issues and challenges of today.

Rather, it's also creating a culture fortified with technology and digital tools that enable (organizations) to see around corners, to be ready for the changes that are yet to come.

Source: McKinsey, The Need for Resilience

How Can Splunk Help with IT / OT Cybersecurity?



Splunk Enterprise Security (ES)
+
Splunk OT Security Add-On

Free OT Security Add-on for ES Customers
<https://splunkbase.splunk.com/app/5151/>



IT + OT Security

THE FORRESTER WAVE™

Operational Technology Security Solutions

Q2 2024



*A gray bubble or open dot indicates a nonparticipating vendor.

Source: Forrester Research, Inc. Unauthorized reproduction, citation, or distribution prohibited.

Cisco/Splunk is a Leader in OT Security

[Link to Report](#)

with detailed vendor profiles



Cisco Cyber Vision Splunk Add On

The Cyber Vision Splunk Add On provides the ability for organizations to pull information from Cisco Cyber Vision leveraging it's RESTful API Interface. Leveraging the Add On, organizations can configure and pull component information, vulnerabilities, activities and events from Cyber...

Built by [Dan Behrens](#)



Login to Download



Latest Version 1.1.0

March 1, 2023

[Release notes](#)

Compatibility



Splunk Enterprise
Platform Version: 9.3, 9.2, 9.1, 9.0, 8.2, 8.1

Rating

5 ★★★★★ (1)

Log in to rate this app

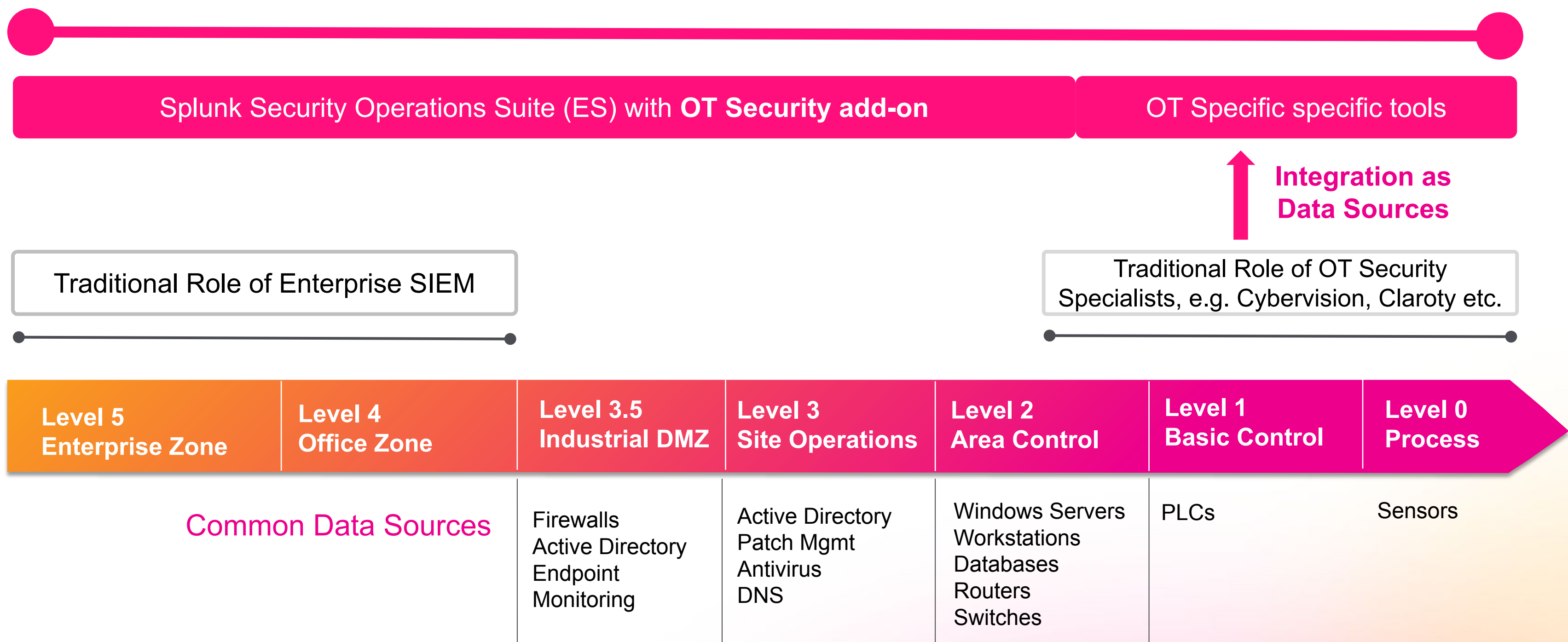
Support



Developer Supported Addon

[Learn more](#)

Splunk Provides Holistic Visibility Across IT & OT Environments









A Rich Ecosystem: OT Data Sources Integrations








A wide variety of sources integrate to Splunk's Common Information Model



- Logs (OS, App, etc.)
- CVEs
- Network Traffic
- Asset Inventory
- Notables
- Patch Management
- Endpoint activity

OT Security Data Sources

Data Type	Data Source
Network Data Authorization data and alerts generated from network traffic for diagnosing system or security issues	Network Traffic Netflow/sflow Zeek Suricata Stream 
Event Data Alerts to system issues, such as routers/switches reaching capacity (memory, disk space, CPU), Windows Events, Linux Security Events	SNMP traps Windows Event store Linux security logs 
OS Data Installed software/version, patching logs, and OS changes	Services installed and state Applications Installed Process Tracking Registry monitoring OS Configuration File Shares 
ICS Application logs Indications of the health of an application (e.g. application and services failures)	Logs created by ICS (access, system logs, etc) Database system and user usage ICS System Configuration files 
Referential Data Clue to system health (e.g. data being replicated and security issues (e.g. access logs)	Files created by the system Database, Log, Text, Spreadsheet, etc Scripted output for state of ICS 
OT/ICS System Data Generated by OT Equipment (e.g. PLC), OT Security Solutions, or ICS Solutions	OT Solution Products (Dragos, Nozomi, Claroty, etc) Alerts OT Solution Asset Data CMDB Spreadsheets Maintenance Inventory Systems 

Data Type	Data Source
OT/ICS Alerts/Alarms Alerts Generated by OT Security Solutions or other ICS Monitoring solutions	OT Solution Alerts ICS System Alerts ICS Alarms/Events 
Communications logs Problems with communications between control systems and PLCs / RTUs, such as timeouts, number of retries and failed attempts	Industrial protocols servers (OPC server, Kepware) Databases (MS SQL, Oracle) communication statistics Communication logs 
Endpoint protection logs Generated by antivirus and whitelisting programs	Antivirus Whitelisting Patching Info & Logs 
USB usage logs	Windows registry (USB) Endpoint Products with USB Monitoring 
Firewall, IDS/IPS Communications external to the OT network and intrusion attempts into the network	Firewall Traffic Firewall system logs Firewall configurations Firewall rules IPS/IDS alerts 
Remote access logs Records of VPN access, remote desktop and VNC server access	Windows AD Audit Information Windows AD Events Remote access application (e.g. VNC, TeamViewer, NextNine, etc) VPN Logs Custom File Transfer Logs (e.g. FTP, SFTP) 
Remote server management logs Used for rack monitoring to track who is accessing which server	Datacenter logs (iLo, IDRAC, etc) Virtual Infrastructure Access (e.g. vcenter) 

 **Essential** Data Source

 **Recommended** Data Source

 **Additional** Data Source

NEW

Security Insight, on Us

Firewall Logs at no additional cost in Splunk*

AVAILABLE
AUGUST 2025



New detections | Automated response

*Cisco Firepower (FTD) firewalls are entitled to 5GB of Splunk logging capacity with purchase

Customer Benefits of IT / OT Security with Splunk



Holistic Visibility across IT and OT Environments

via an central IT / OT SOC - on-premise, hybrid oder aaS (Splunk Cloud)



OT Environments Coverage

via implementation of the latest ICS MITRE ATT&CK rules
and integration of OT Security vendors, e.g. Nozomi as data sources



Security Automation & Orchestration Technologies

Risk-based Alerting

Orchestration - Automation - Response (SOAR)

Attack Analyzer



cybersecurity

Customer References

threats manufacturers
now.

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Saudi Aramco

In a COVID-19 World - Lessons Learned with OT CyberSecurity

Israeli Ministry of Energy

How Israel's Ministry of Energy applies Machine Learning to protect their Critical Infrastructure and OT Operations

EY

Splunk in P&U: Empowering OT and the Grid

Transport for New South Wales, Australia

NSOC for Your OT & IT Government Services



Blog: [OT Security is the New Avenger](#)

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Splunk Lantern Customer Success Center

Let Splunk experts light your path toward gaining valuable data insights, achieving your key use cases, and managing Splunk more efficiently.

[Click here to learn more.](#)



Solution Accelerator for Operational Technology (OT) Security

The Solution Accelerator for **OT Security** helps you get started with common use cases for **OT** environments and ensure your **security** controls are working.

Last update: 11/12/2024

[Link](#)

[Link Dashboard](#)

Thank you