

Tomorrow's SOC Speakers



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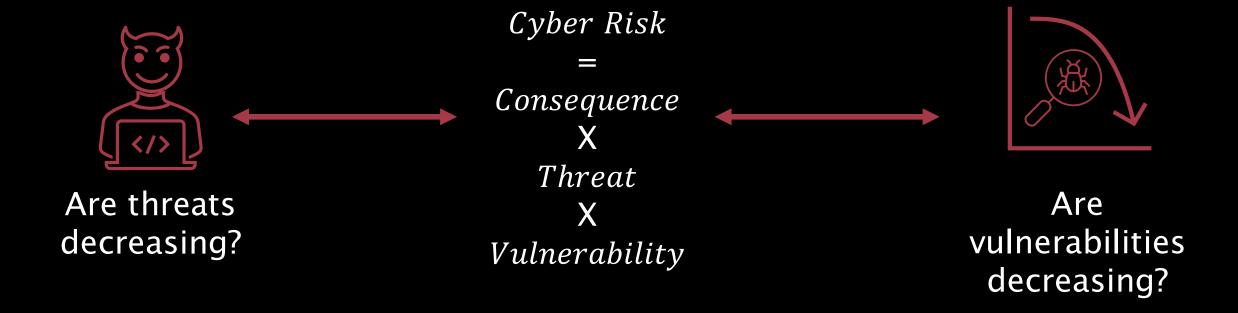


splunk>



The "Classic" Cyber Risk Equation

Agnostic to Engineering and Operations



What's Special About Dragos ICRM?

Industrial Cyber Risk Management

$$ICRM = Consequence \times \frac{Threat \times Vulnerability}{Resilience}$$

$$Susceptibility$$

Risk not expressed as probability

Likelihood not an independent variable

Susceptibility

All Evaluated Per Scenario





Threat

- Based on threat intelligence and research
- Looks at realistic approaches, threat groups, and experience



Vulnerability

- Specific vulnerabilities
- Considers individual device vulnerabilities, and systemic architecture weaknesses



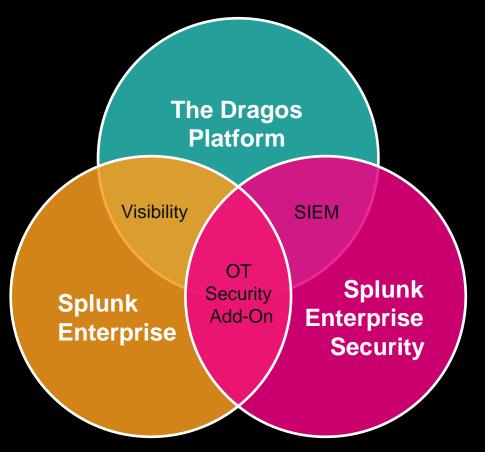
Resilience

 Considers technical, managerial, and procedural countermeasures



Achieving OT Cyber Resilience

"OT Cyber Resilience" is defined as an organization's ability to prevent, detect & respond to adverse conditions or malicious compromises of systems that are enabled by digital networks.



How Splunk approaches risk

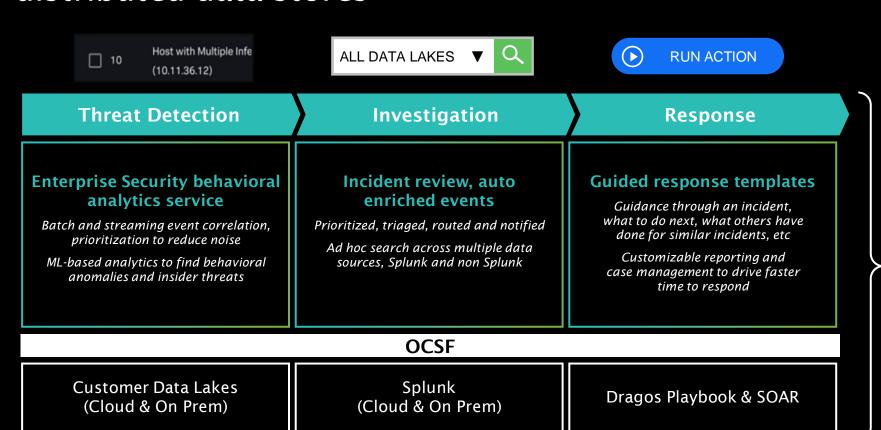
- Risk based analytics
- □ Consume noise
- □ Raise the relevant

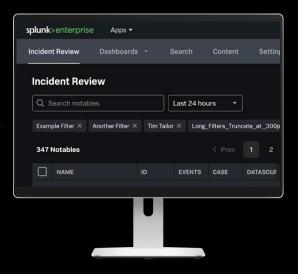
Resilience

- ☐ How do we prevent?
- ☐ If not, how do we recover?

Splunk's Direction

End-to-end security operations for a seamless experience across distributed data stores







Traditional Notables and RBA Together



- High Fidelity
- Known
- Realm of Low Volume
 - Actionable
 - i.e. Ransomware signature



Detect, Investigate & Respond

- Actionable Alerts
 Metrics
- Risk Analysis
- Timeline View
- Reduced False Positives

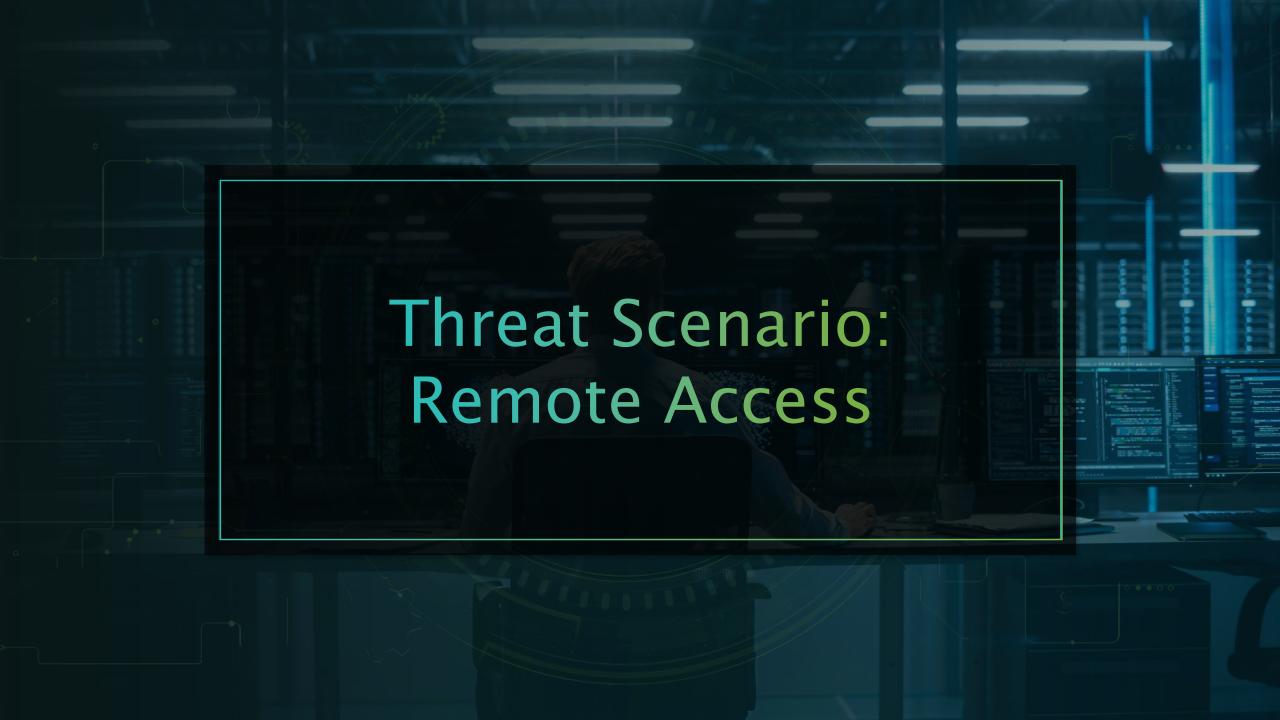
Risk Based Alerting

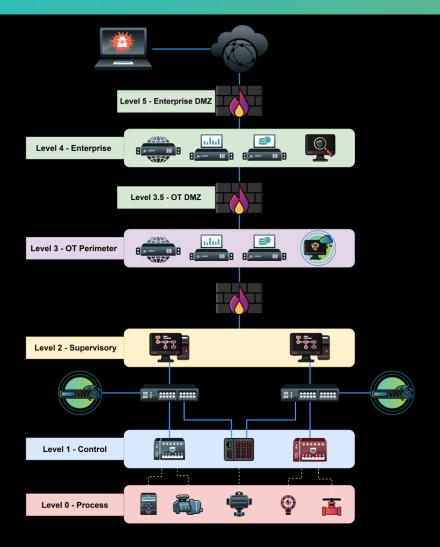
- Risky behavior detection
- Unknown
- Realm of Risk Scoring
 - Alignment to Security Frameworks
 - Reduce False Positives

Point-in-time

Period-of-time







Contributing Events

- IT Event: Contractor/Engineer logged in after hours
- OT Alert: PLC modification without authorization

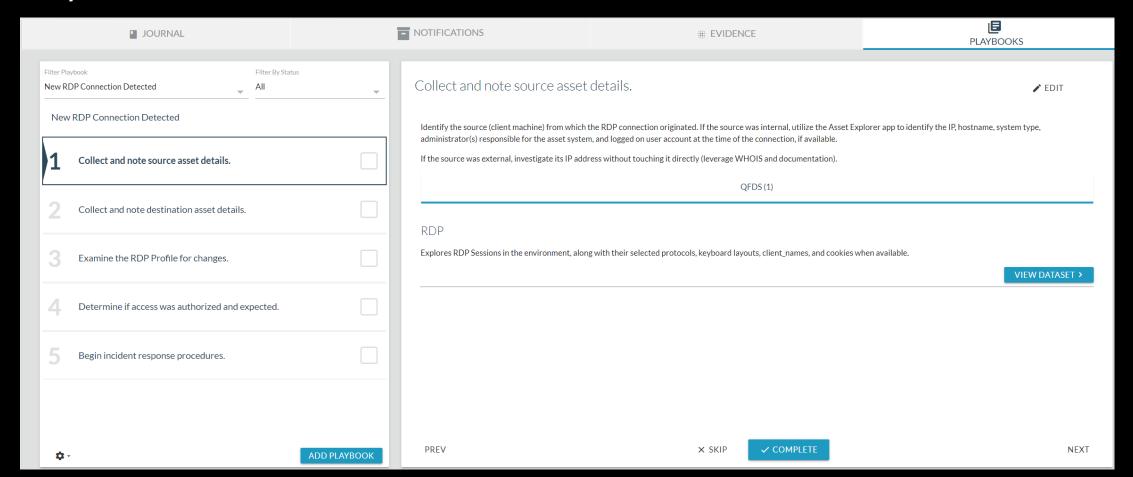
Justification

In addition to having a strict changemanagement process, which has not been initiated for this specific change, it's highly abnormal for contractors/engineers to be logging in during off-hours

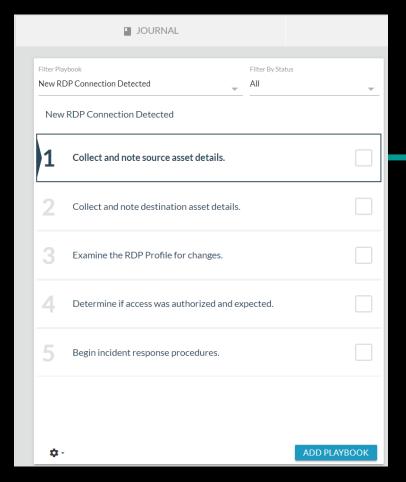
Challenge

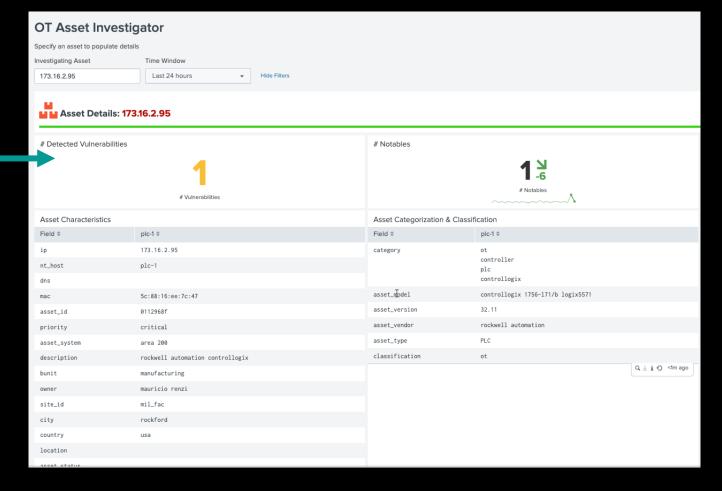
What is the risk?



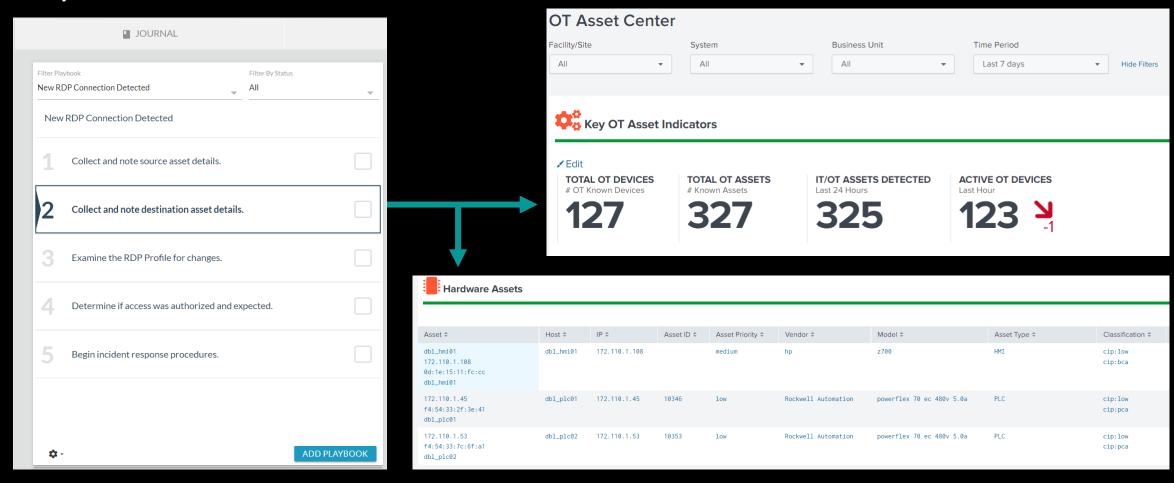




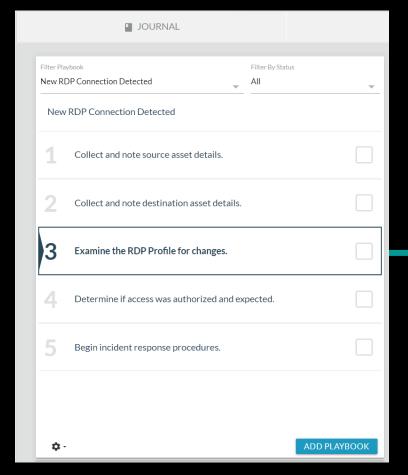


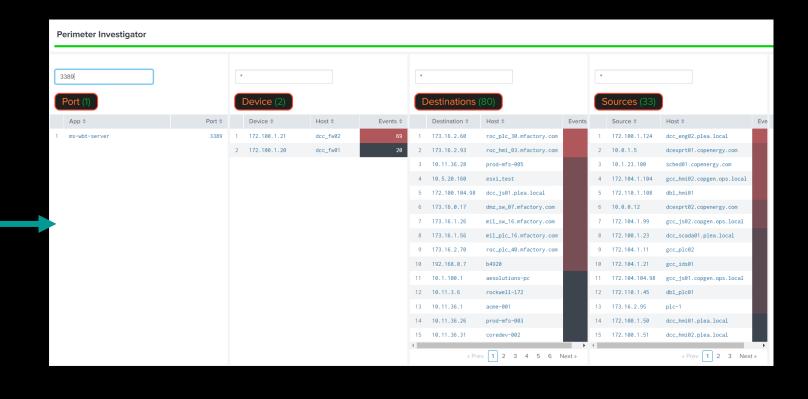




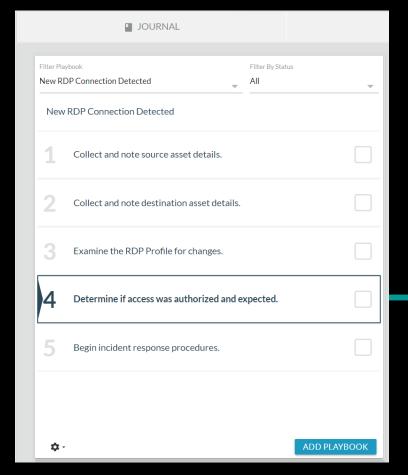


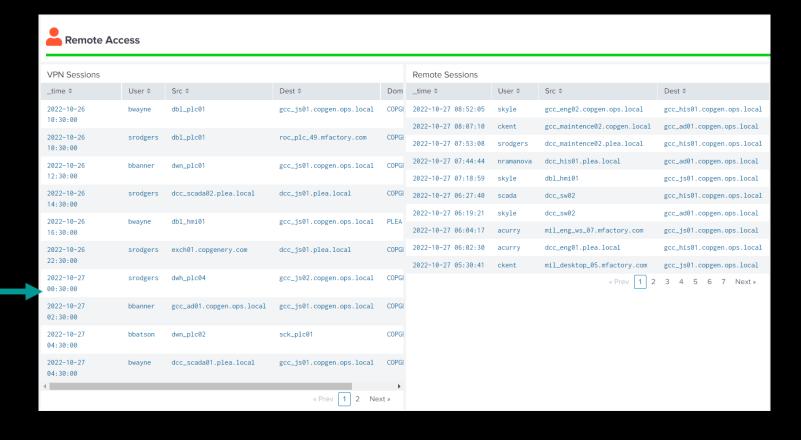






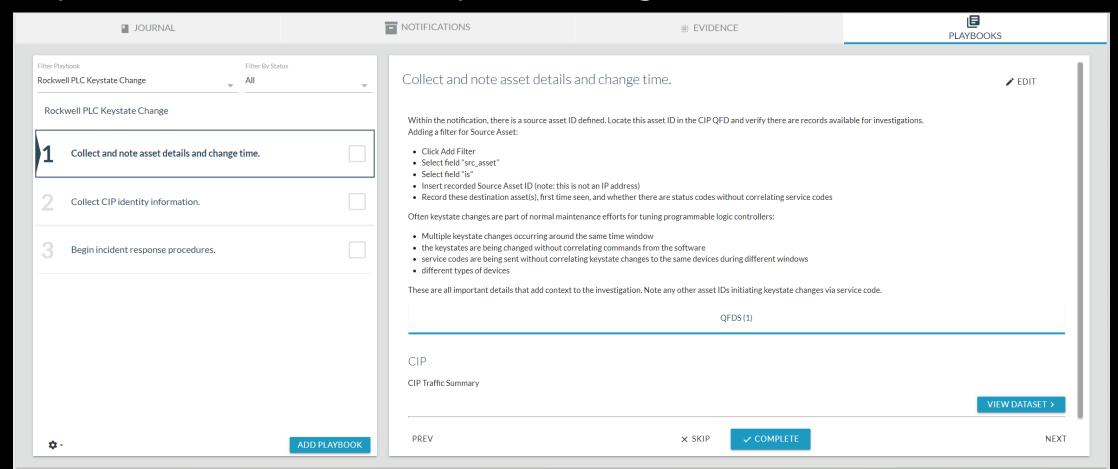






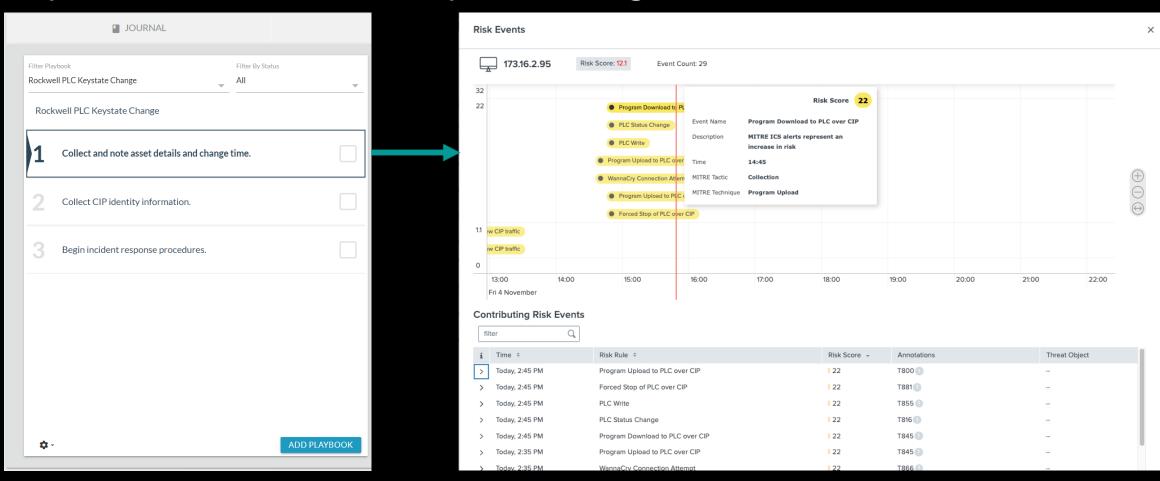


Playbooks - Rockwell PLC Keystate Change



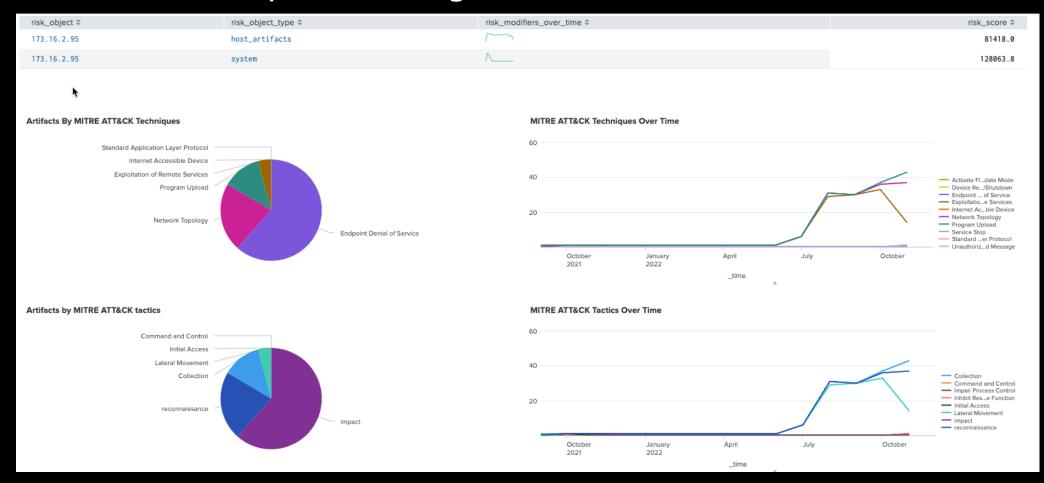


Playbooks – Rockwell PLC Keystate Change



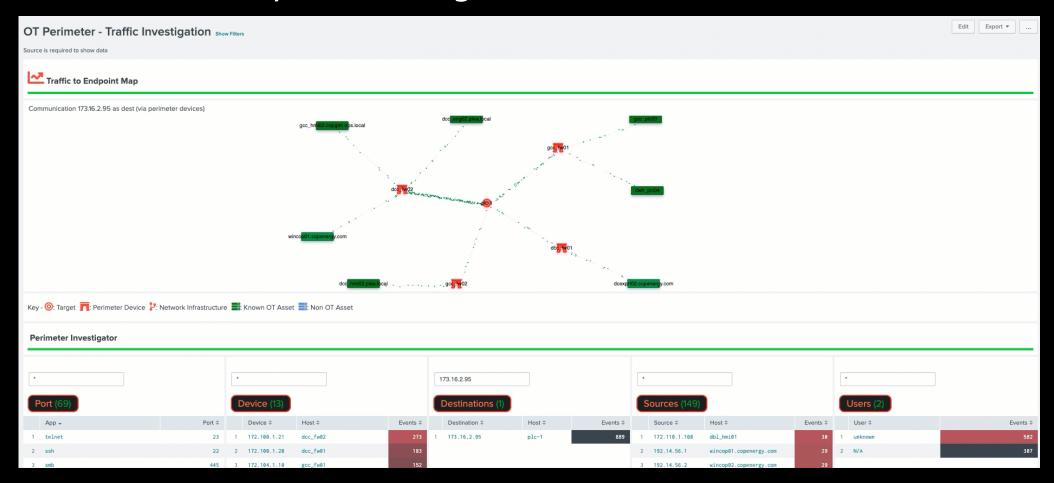


Rockwell PLC Keystate Change – Risk Workbench





Rockwell PLC Keystate Change – Real time communication







Tomorrow's SOC

Vision of what the future SOC looks like:

SIEM - Incorporation OT (Fusion center)

Visibility across the whole network OT+IT

Security Analytics

Vulnerabilities and Detections

Guidance for response (Playbooks)

Critical Controls for Effective OT Cybersecurity



Tomorrow's SOC

Simplify and Manage Visibility into both IT & OT Environments

SOC (Security Operations Center)

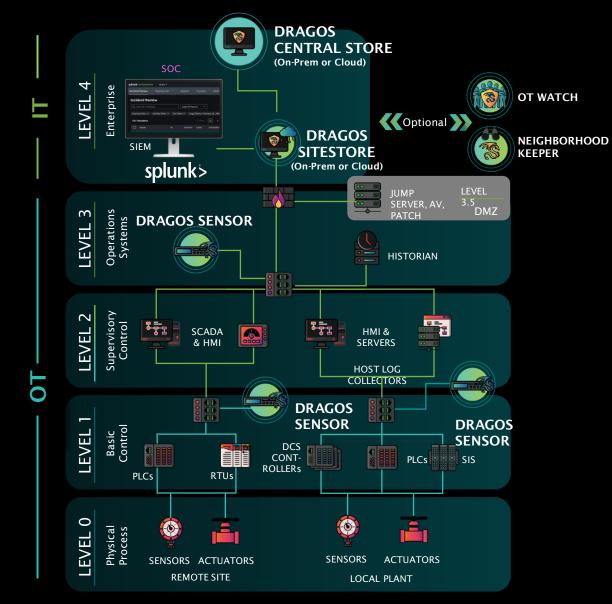
Splunk SIEM

(Security information and event management)

- Risk based alerting
- Advanced Threat Detection
- Embedded threat intelligence
- Rapid response security content

The Dragos Platform

- OT Asset Visibility
- Vulnerability Management
- Threat Detection
- Investigation & Response









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