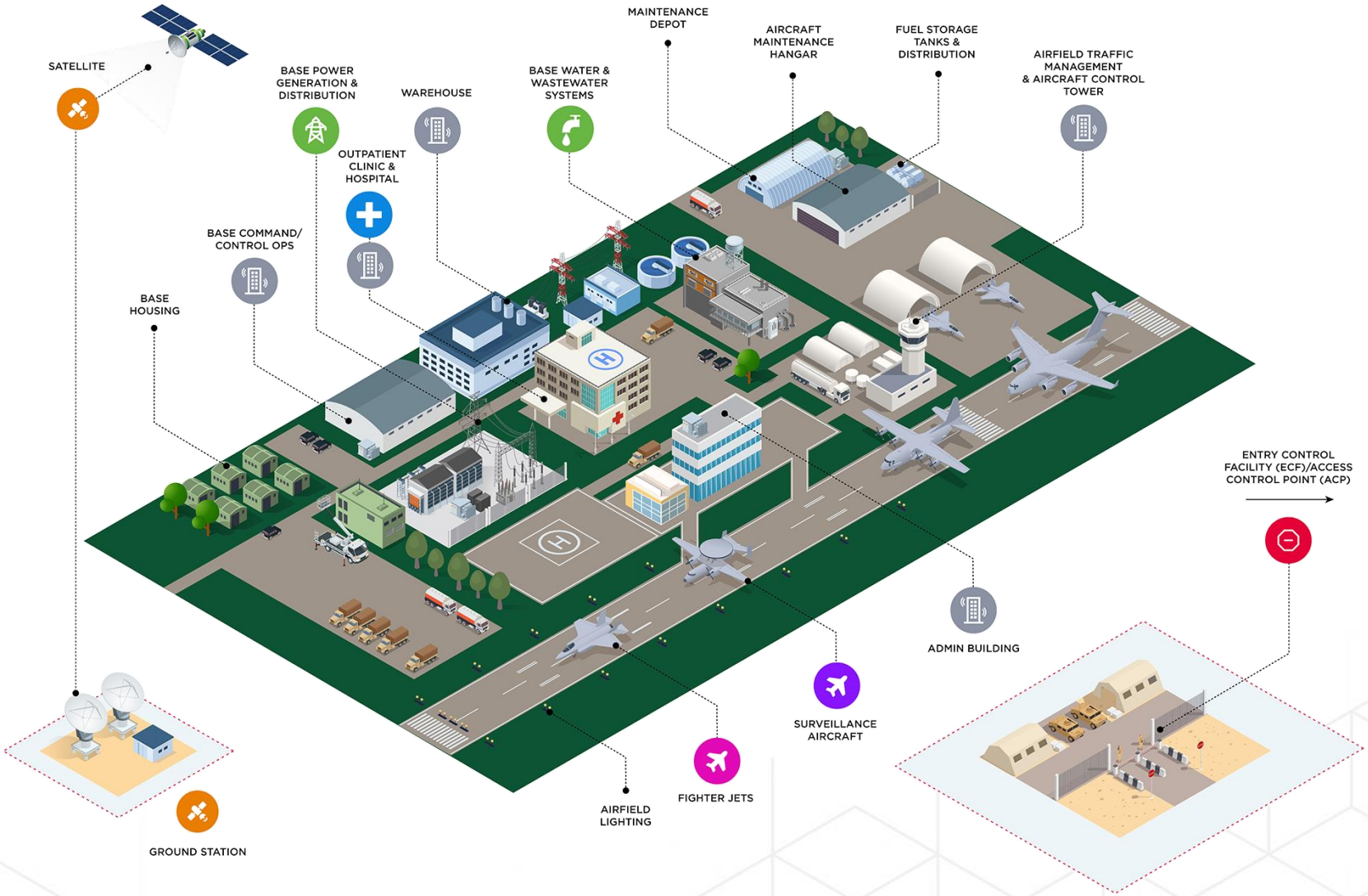

CLAROTY
merlin group
March 11, 2025 | Washington, DC
XCCELERATE
Advancing Cyber Innovation for Government
Securing OT & ICS Networks

“The OT Network Blind Spot – Risks & Vulnerabilities Are Closer Than They Appear”

What is OT Network Security & Why Should We Care?

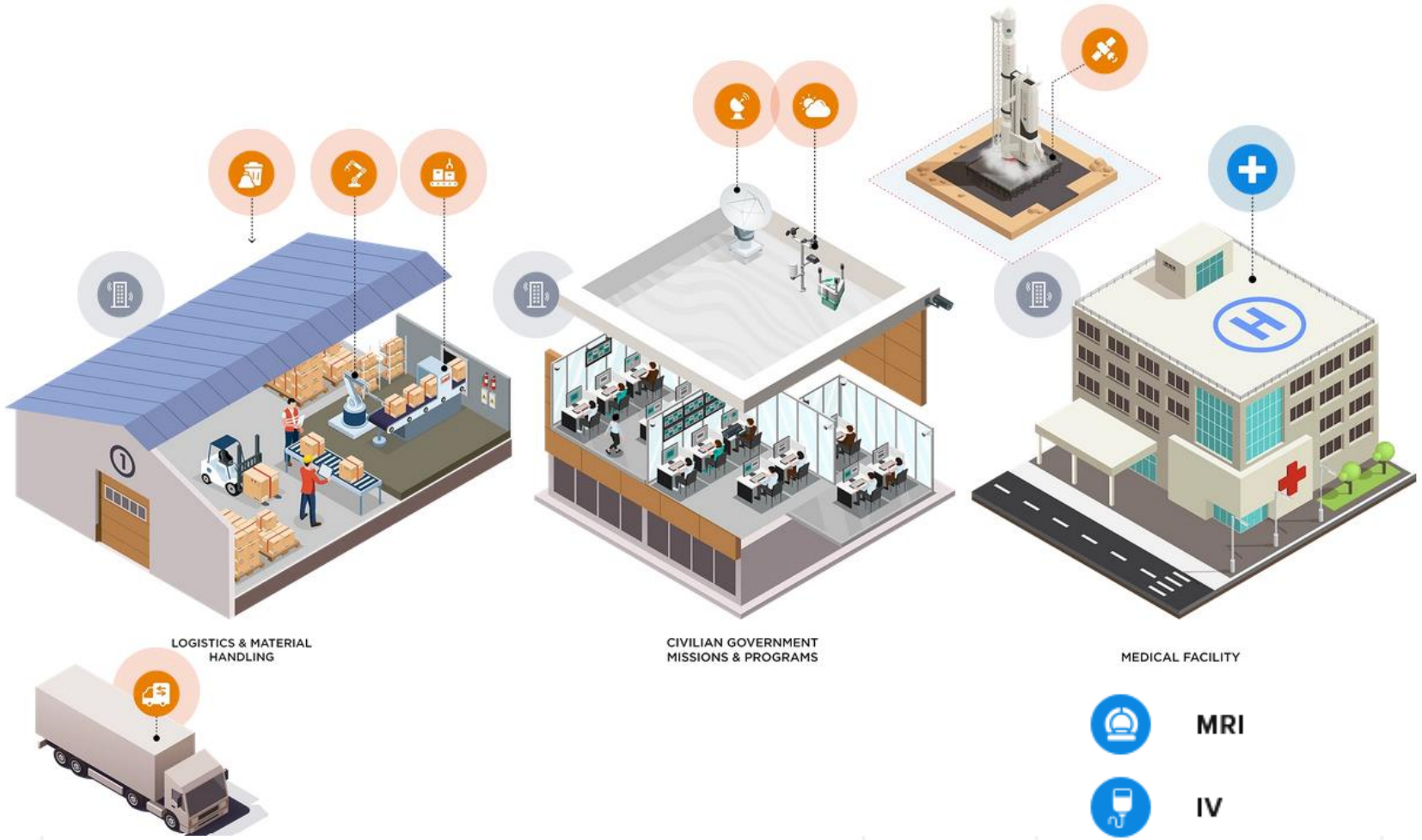
OT Networks For Military Installations

- ✓ Backup Power
- ✓ Fuel Distribution
- ✓ Fuel Storage
- ✓ Base Power Distro
- ✓ Base Power Gen
- ✓ Mission Water System
- ✓ Water Storage
- ✓ Potable Water
- ✓ Public Works
- ✓ Manufacturing
- ✓ Building Controls



Operation/Mission Systems & Services

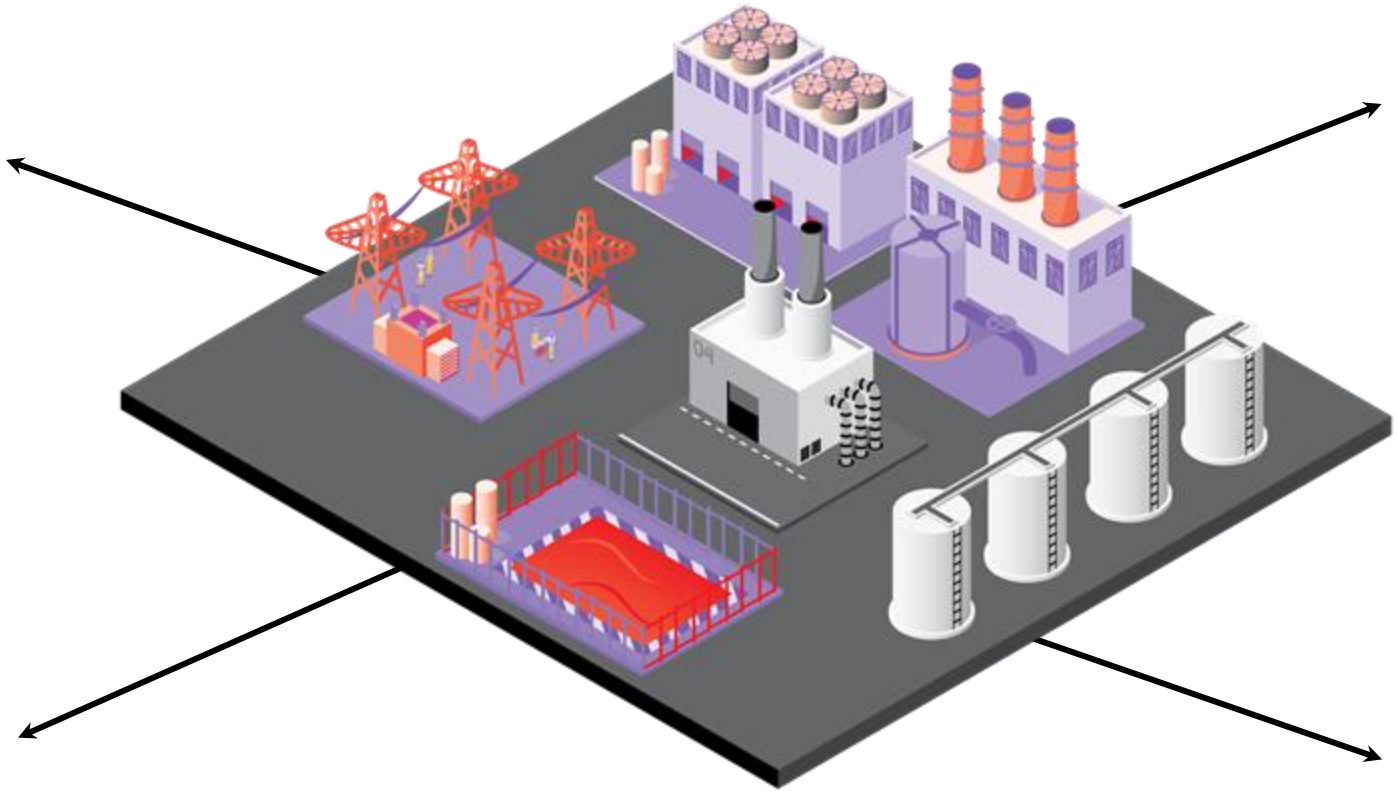
- LOGISTICS SYSTEMS
- TRANSPORTATION SYSTEMS
- MANUFACTURING WASTE/ CLEANUP OPERATIONS
- SATELLITE COMMS
- WEATHER SYSTEMS
- SPACE SYSTEMS
- AUTOMATED MATERIAL HANDLING (AMHE)



Disruptions From OT Cyber Attacks are Increasing

67%
incurred at least $100,000 in financial impact due to a cyber attack

49%
Of CPS organizations experienced 12+ hours of downtime due to a cyber attack



45%
of organization stated at least half of their CPS are connected to the internet

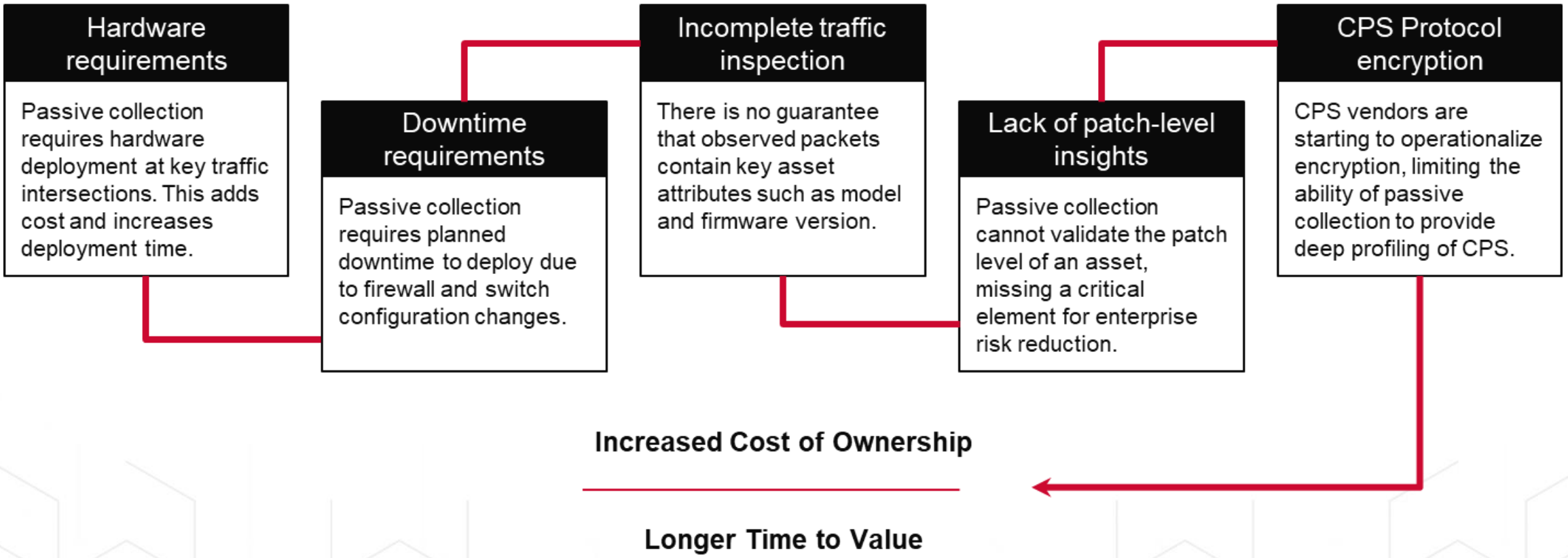
82%
Experienced at least one cyber attack that originated from third-party access

OT Asset Visibility, Risk Assessment & Threat Detection

OT Security Challenges for US Federal & DoD Agencies

- Asset Inventory Mandates
- Risk & Vulnerability Assessments
- Threat Detection & Response
- Preparing OT Networks for Zero Trust

Asset Inventory: Limitations of Passive Discovery



A New Approach to Asset Inventory: Dynamic Discovery

Safe Queries

Targeted discovery of assets in their native protocol

Claroty Edge

Speedy, host-based asset profiling through localized queries

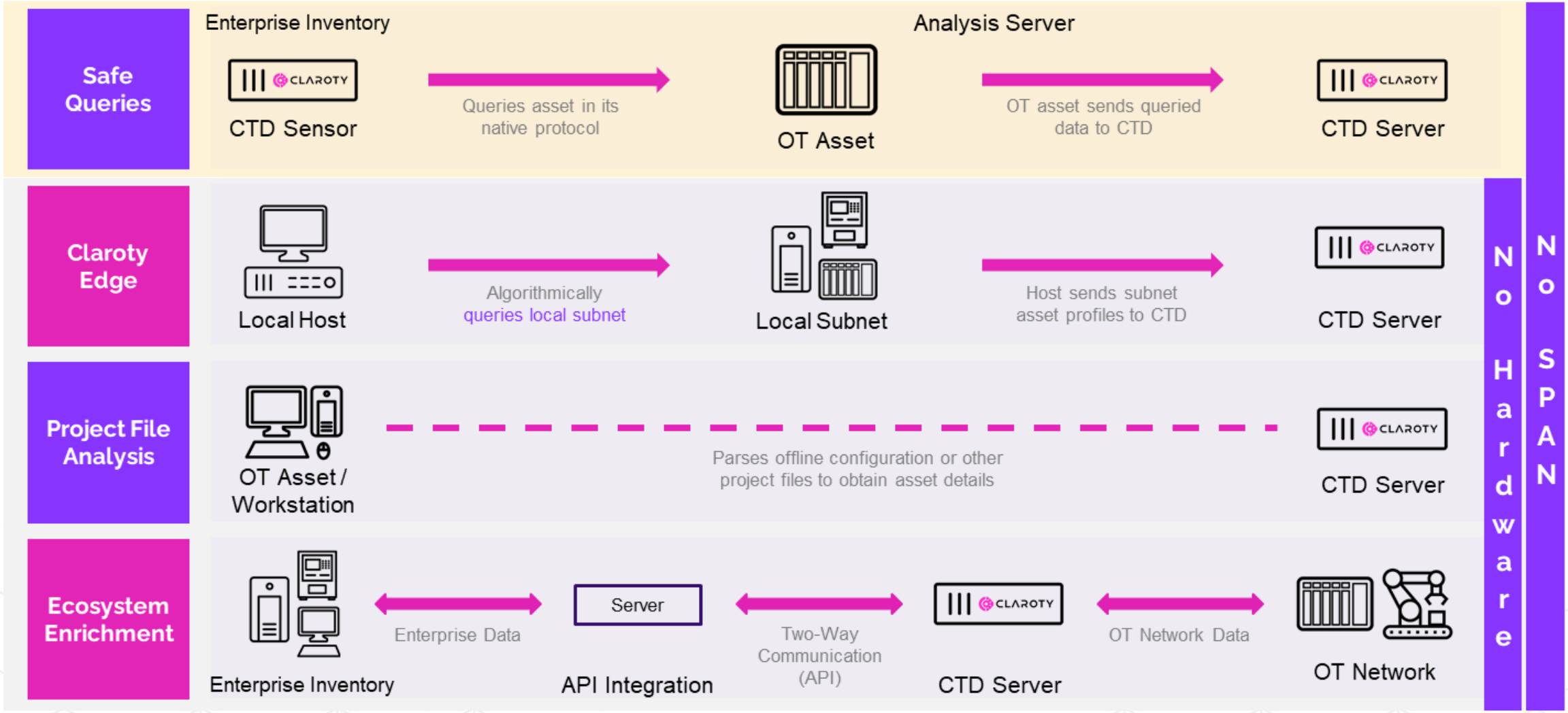
Project File Analysis

Regular ingestion of offline configuration files for asset enrichment

Integrations

Enriching visibility without hardware or configuration changes

Dynamic Discovery: How It Works



Complete OT Visibility: A Phased Approach

Strong OT cybersecurity **requires a foundation of in-depth visibility**

1

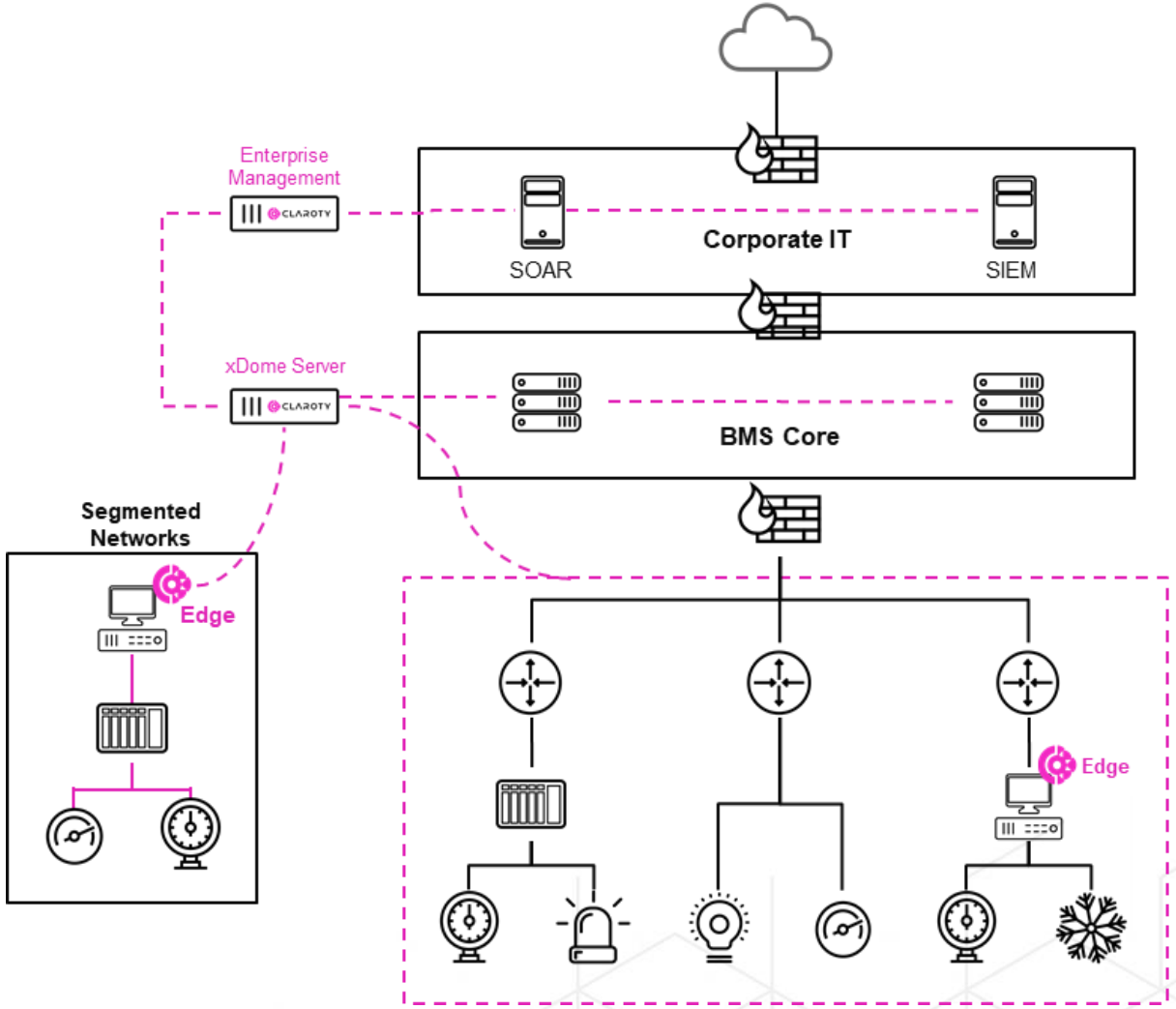
Dynamic Discovery leverages a combination of **safe queries** and **existing ecosystem data**

- ✓ Deep asset profiles
- ✓ Broad, actionable insights
- ✓ No hardware required
- ✓ Low deployment resources

2

Adding **passive collection** to enhanced additional requirements

- ✓ Continuous threat monitoring
- ✓ CPS communication profiling



Secure Access for OT Networks

Remote Connectivity Introduces Risk For OT Networks

82% of organizations experienced **at least one cyber attack** related to 3rd party access to CPS environment

63% of organizations have only partial or **no understanding of 3rd party connections** to their CPS environments

45% of organizations experienced **5 or more attacks related to remote access**

The Global State of CPS Security 2024

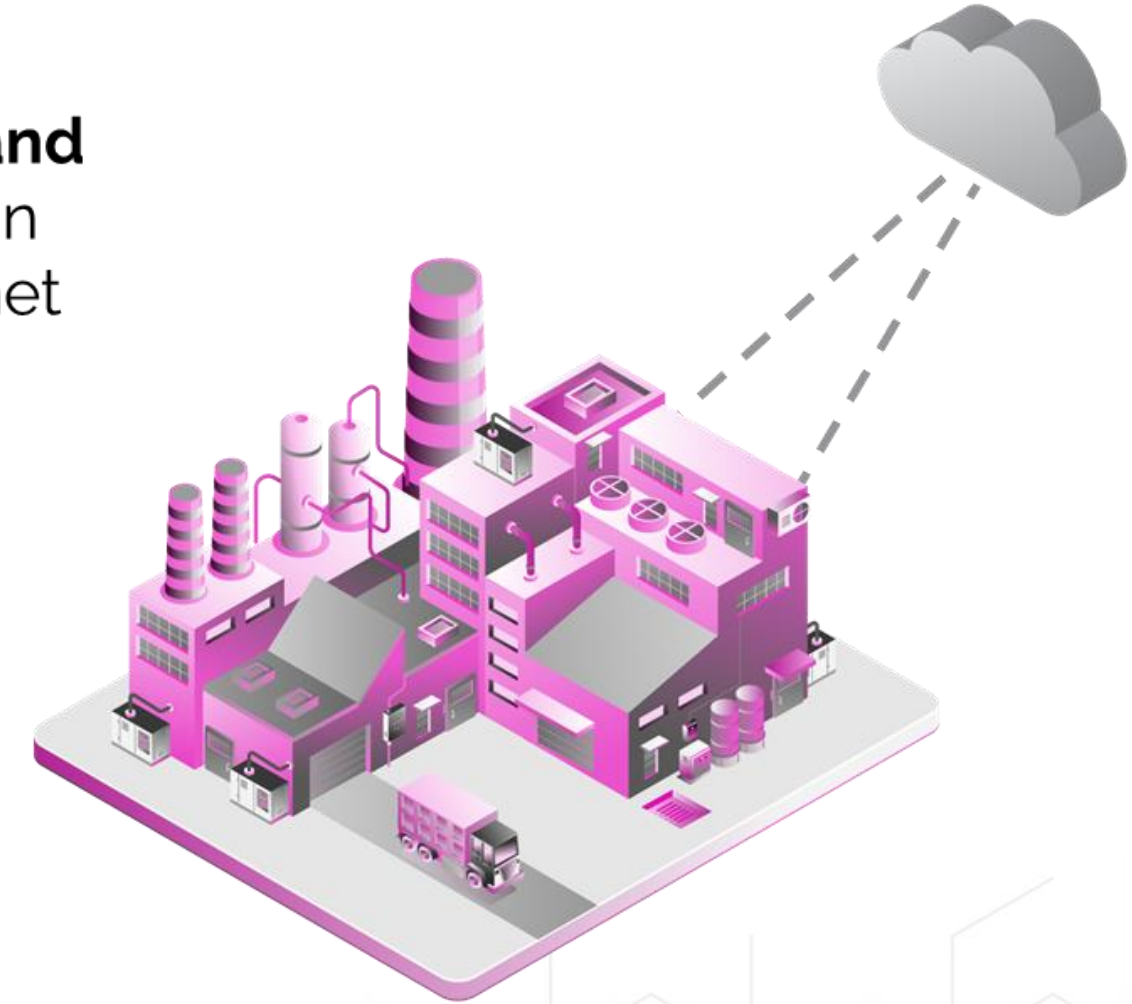
Source: https://claroty.com/resources/reports/the-global-state-of-cps-security-2024-business-impact-of-disruptions

Remote Connectivity In The OT Environment

An analysis of **thousands of HMIs and EWSs** revealed that **13%** maintain an insecure connection with the internet

36%

Of these have at least one exploited vulnerability



Data captured from the Claroty xDome installed base

HMI: Human Machine Interface
EWS: Engineering Workstation

OT Systems Require Tailor-Made Secure Access Solutions

Traditional access solutions like VPNs and jump servers fall short when it comes to requirements for accessing operational environments

Productivity
Designed to support operational outcomes

Security
Protect workflows and unique architectures

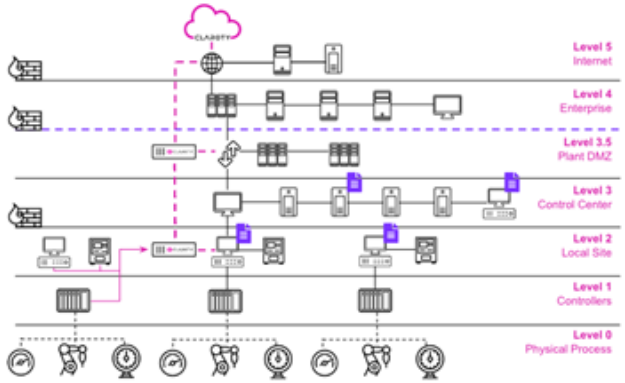
Administration
Streamline setup and access provisioning

Compliance
Support verticalized regulatory frameworks

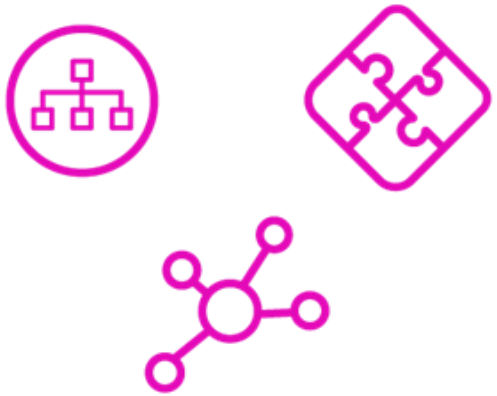
Why OT Systems Require A Specialized Approach To Secure Access

	Traditional IT solution		CPS Implications
Productivity	Lacks agentless access and struggles in high-latency environments.		Hinders operations and maintenance of assets in remote sites, creating **risk of downtime and increased MTTR**.
Security	Broad network access with limited session control, violating Zero-Trust principles.		**Increases OT asset exposure**, risks of privilege escalation, lateral movement, and operational errors.
Administration	Manual identity and access management, lacking centralized governance.		**Requires specialized CPS knowledge** for managing user lifecycles and granular RBAC.
Compliance	Fail to effectively log and report network changes in real-time.		Creates compliance gaps, **result in audit challenges** and an **increased operational risk**.

Driving OT Security Through Secure Access Controls



What is the scope of your secure access program?



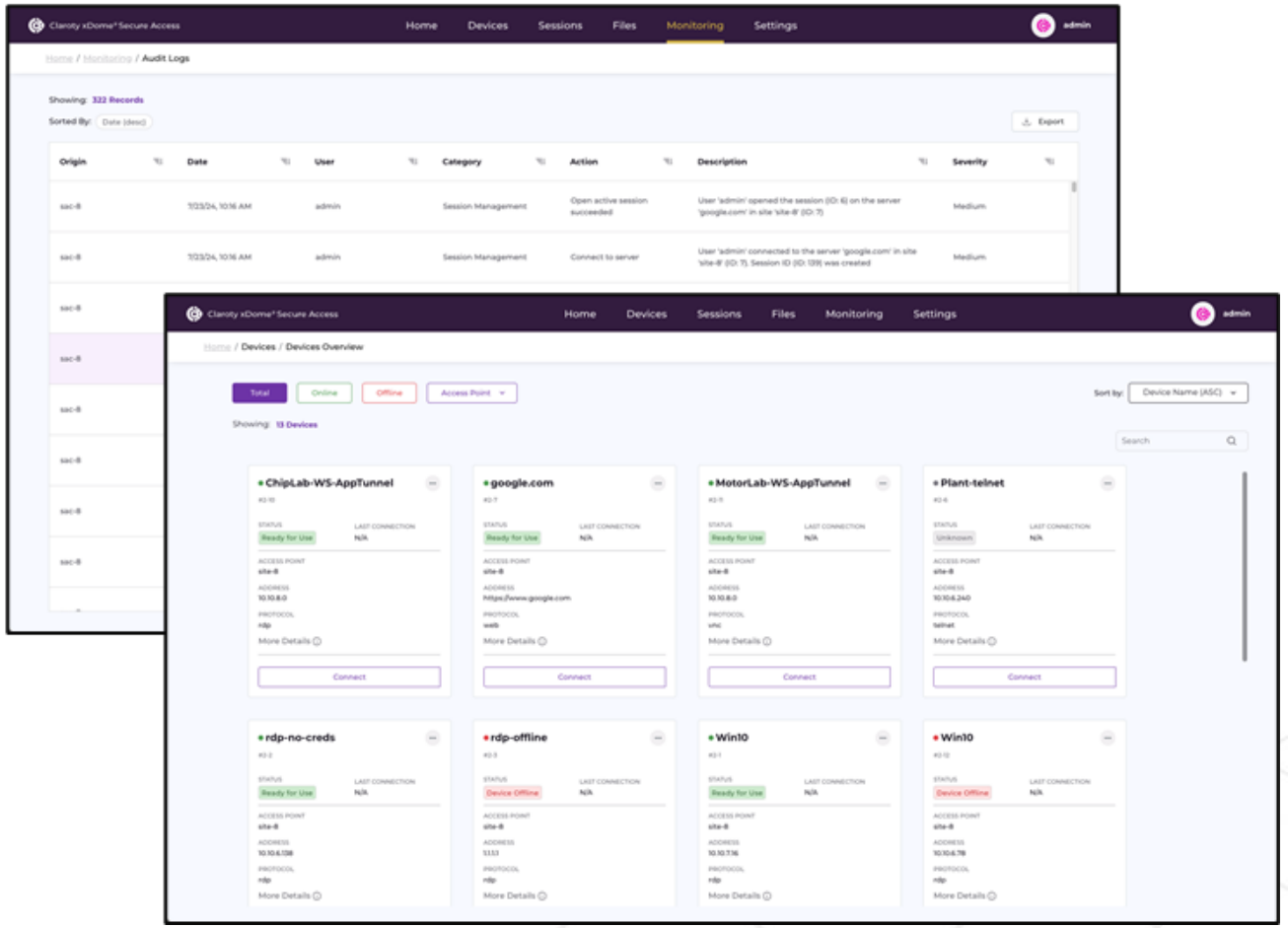
What level of user access and control is required?

Which regulatory frameworks do you closely align with?

Claroty xDome Secure Access: Tailor-Made Secure Access for OT

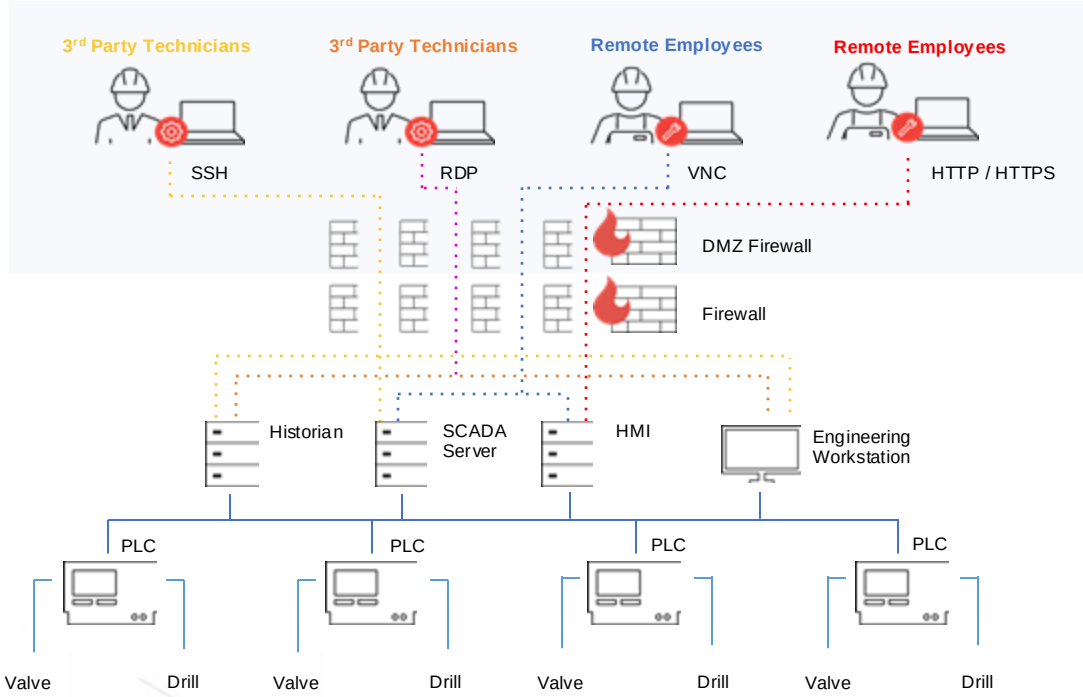
Supporting the **operational integrity** of mission-critical assets

- Seamless first and third-party access
- Risk and attack surface reduction
- Simple administration and governance

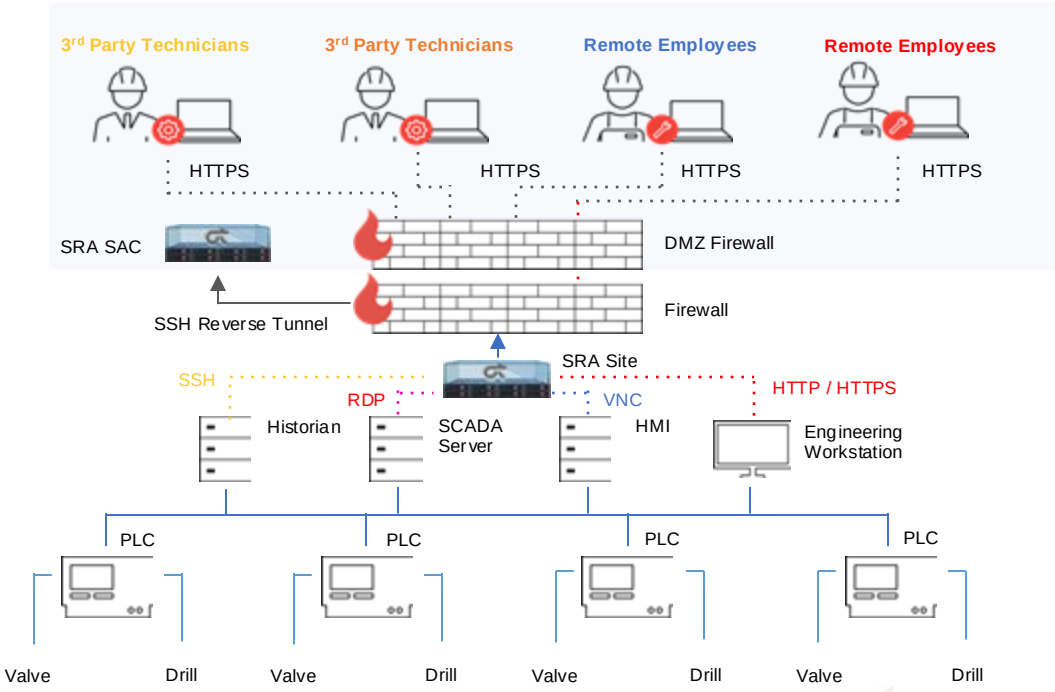


Claroty xDome Secure Access: Solution Overview

Without Secure Access

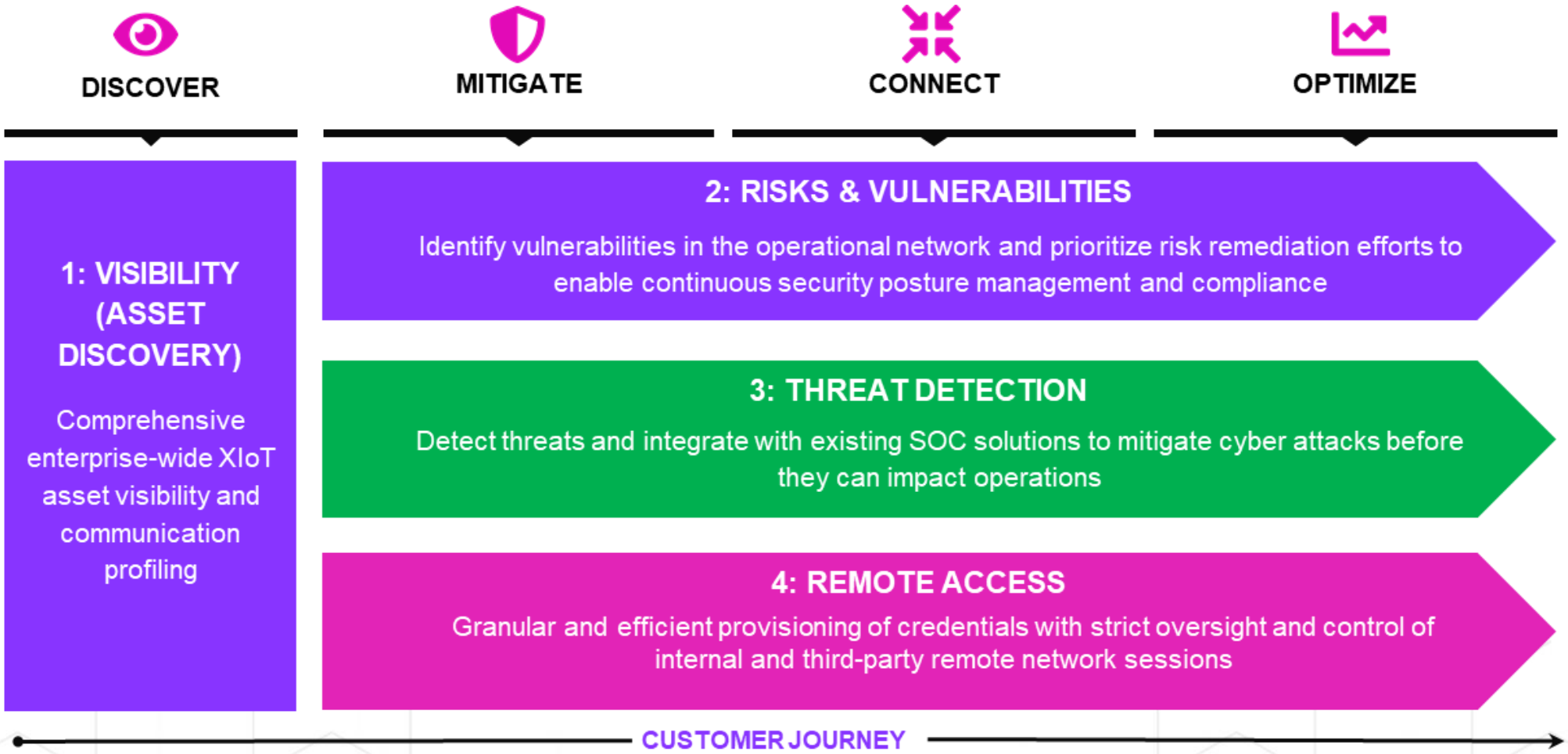


With Secure Access



Claroty Solutions For Securing OT Networks

The Journey To Achieving OT Cyber Resilience



Claroty Solutions for Securing OT Networks

Claroty xDome

Claroty Continuous Threat Detection (CTD)

Claroty xDome Secure Access

Exposure Management

Advanced risk and vulnerability management with prioritization guidance, risk assessment, and reporting capabilities.

Network Protection

Protect asset zones with zone mapping recommendations, policy creation, and custom communication alerting.

Threat Detection

Continuously monitor your network for known threats and anomalous activity, and investigate alerts with SOC integrations.

Secure Access

Frictionless and secure remote access for operations in industrial environments by internal and third-party users.

CPS Zone Management

Comprehensive Asset Visibility

Questions