Skybox for operational technology

Industrial strength security for an industrial world

Challenges

Operational technology (OT) networks and critical infrastructure encompassing industrial control systems (ICS) and supervisory control and data acquisition systems (SCADA) are quickly becoming more prevalent attack vectors and targets.

Standard security controls implemented on IT networks often don't translate or interact with the OT environment, meaning malware or malicious attackers detected through next-generation firewalls, packet inspectors, and intrusion prevention systems won't detect OT attacks. And a successful attack could have disastrous effects: damaging infrastructure, disrupting services, and endangering the health and safety of workers or the populations they serve.

Legacy OT devices are often implemented with straight out–of–the–box settings without customizations or changes to the original configuration. Default passwords and easily discoverable and exploitable default settings make these devices vulnerable to even novice attackers and expose the entire organization to risk.

Vulnerabilities and other security issues are also present in the software and firmware of control system networks. Their development methodology was designed and implemented in a very different threat landscape.

Without visibility of the devices, connections, and security posture of OT networks, critical attack vectors will slip through the cracks.

Benefits of Skybox for OT

+ Bring on-premises, multi-cloud, and OT environments into a single and complete model of your attack surface

+ Analyze paths from any source to any destination within and between hybrid networks

+ Find exposed vulnerabilities anywhere in your organization and prioritize remediation based on risk

+ Strengthen security to maintain uptime and avoid disruption

skyboxsecurity.com

Solution

The Skybox® platform provides the most comprehensive set of security posture management tools to centralize, automate and connect IT and OT networks. With seamless visibility, contextual intelligence, and analytics-driven automation, Skybox reduces risk from exposures and helps establish consistant security policies in both your IT and OT networks.

Skybox integrates over 150 networking and security technologies, including OT networks and their security management platforms. It merges and normalizes this data in central repositories, so your entire security program has a standard reference for infrastructure, asset, and vulnerability data.
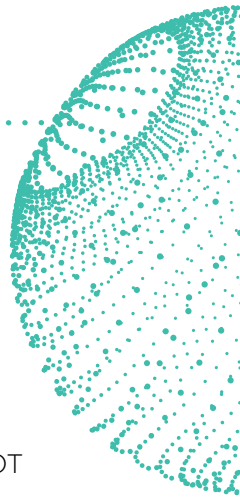
Skybox Security Posture Management Platform

Security Policy Management (SPM)

- ◉ Firewall Assurance
- ◉ Change Manager
- ◉ Network Assurance

Vulnerability and Threat Management (VTM)

- ◉ Vulnerability Control
- ◉ Threat Intelligence

Skybox then builds this information into a comprehensive model of on-premises, multi-cloud, and OT networks, providing total visibility across hybrid environments and enabling detailed analysis to:

+ Compare the aggregate access of your network to the access designed in your security policies

+ Analyze access end-to-end to troubleshoot connectivity issues and protect critical assets

+ Identify exposed and exploited vulnerabilities to mitigate effectively

+ Automate and orchestrate processes to maintain uptime and avoid costly or dangerous disruptions

Components

Notable ecosystem connections and integrations
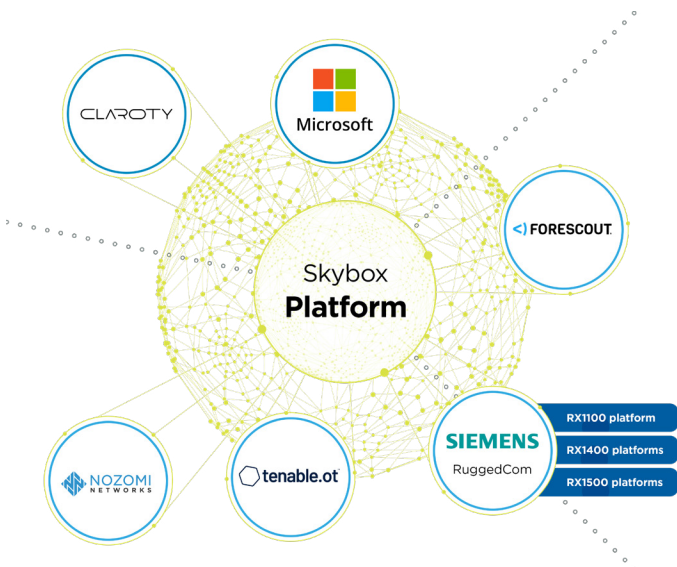
Data collected from OT networks

OS information

+ OS, OS vendor, OS Version (where available in the configuration)

+ Platform to include appliance model and underlying version (where relevant/available in the structure)

+ Device names (e.g., FQDN)

Interfaces (all attributes supported)

+ Layer 3 interfaces

Routing

+ Static

+ Dynamic

Access control list

+ Rule comment/description

+ Network address translation

Security posture management uses case for OT

+ Modeling: collection & parsing network data into the Skybox model

+ Access compliance analysis

+ Rule compliance analysis

+ Shadow and redundant rule analysis

+ Change tracking (by configuration file comparison)

+ Vulnerability management

+ Risk scoring and exposure analysis

Get greater insight into your OT environment today

Unify your hybrid IT-OT environment into central repositories, a standard reference model, and a centralized management platform. By harnessing the power of Skybox for OT, you'll gain unparalleled insight into your hybrid environment — and its risks — to inform action with better context, increase process efficiency and improve collaboration between teams.

Contact an expert   Schedule a demo ···>

ABOUT SKYBOX SECURITY

Over 500 of the largest and most security-conscious enterprises in the world rely on Skybox for the insights and assurance required to stay ahead of their dynamically changing attack surface. Our Security Posture Management Platform delivers complete visibility, analytics and automation to quickly map, prioritize and remediate vulnerabilities across your organization.